

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **RICH SUPEROTO 690 3337**

Version 4.0 Revision Date 08.09.2022 Print Date 09.09.2022

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : RICH SUPEROTO 690 3337

Material number : 0133509J0

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

This information is not available.

#### 1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH

Guentersthal 4 91235 Hartenstein

Telephone : +499152770 Telefax : +499152777008

E-mail address : msds.eckart@altana.com

Responsible/issuing person

#### 1.4 Emergency telephone number

#### NCEC:

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

#### **SECTION 2: Hazards identification**

#### **GHS Classification**

: Flammable solids, Category 1, H228 Acute toxicity, Category 4, Oral, H302

Serious eye damage/eye irritation, Category 2A, H319

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Short-term (acute) aquatic hazard, Category 1, H400 Long-term (chronic) aquatic hazard, Category 1, H410

**GHS-Labelling** 

Symbol(s) :







Signal word : Danger

Hazard statements : H228: Flammable solid.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention**:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting

equipment.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection/ hearing protection.

Response:

P301 + P317 + P330 IF SWALLOWED: Get medical help.

Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P337 + P317 If eye irritation persists: Get medical help.

P391 Collect spillage.

P370 + P378 In case of fire: Use for extinction: Special

powder for metal fires.

P370 + P378 In case of fire: Use for extinction: Dry sand.



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## Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## Hazardous components which must be listed on the label

Identification CAS-No. copper 7440-50-8

# **SECTION 3: Composition/information on ingredients**

Substance No. :

#### **Hazardous components**

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
Copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	50 - 100
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	25 - 50
octadecylamine	124-30-1 204-695-3	STOT RE;2;H373 Asp. Tox.;1;H304 Eye Dam.;1;H318 Aquatic Acute;1;H400 Aquatic Chronic;1;H410 Skin Irrit.;2;H315	0,25 - 1



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For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : Move the victim to fresh air.

Do not leave the victim unattended.

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

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

advice.

If symptoms persist, call a physician.

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

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

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.

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

This information is not available.

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

This information is not available.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Special powder against metal fire, Dry sand, ABC powder

Unsuitable extinguishing

media

: Water, High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

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

courses.

#### 5.3 Advice for firefighters

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

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. Use a water spray to cool

fully closed containers.



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#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Evacuate personnel to safe areas. Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

Remove all sources of ignition.

#### 6.2 Environmental precautions

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.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

Pick up and transfer to properly labelled containers.

Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust. Routine housekeeping should be

instituted to ensure that dusts do not accumulate on surfaces.

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Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid contact with skin and eyes. 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.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

Avoid dust formation. Keep away from open flames, hot

surfaces and sources of ignition.

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.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: 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.

No smoking. Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions

: Protect from humidity and water.

Advice on common storage

 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.

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Dampness : Keep in a dry, cool and well-ventilated place.

Other data : Keep in a dry place. No decomposition if stored and applied

as directed.

# 7.3 Specific end use(s)

This information is not available.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	AGW (inhalable fraction)	1 mg/m3		DE TRGS 900
zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
zinc powder  — zinc dust (stabilised)	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			

## United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	TWA	1 mg/m3	2008-01-01	

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Copper	7440-50-8	TWA (dust and mists)	1 mg/m3	2005-09-01
Copper	7440-50-8	TWA	1 mg/m3	1989-01-19
Copper	7440-50-8	TWA	0,2 mg/m3	2008-01-01
Copper	7440-50-8	TWA	0,1 mg/m3	1989-01-19
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	2010-03-01
Copper	7440-50-8	TWA (Fumes)	0,2 mg/m3	2010-03-01
Copper	7440-50-8	TWA (Dust)	1 mg/m3	2013-10-08
Copper	7440-50-8	TWA (Mist)	1 mg/m3	2013-10-08
Copper	7440-50-8	TWA (dusts and mists)	1 mg/m3	2011-07-01
Copper	7440-50-8	TWA (Fumes)	0,1 mg/m3	2011-07-01
Copper	7440-50-8	PEL (Fumes)	0,1 mg/m3	2014-11-26
Copper	7440-50-8	TWA (Fumes)	0,1 mg/m3	1989-01-19
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	1989-01-19
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (total dust)	15 mg/m3	2012-07-01
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (respirable fraction)	5 mg/m3	2012-07-01
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01
zinc powder	7440-66-6	PEL (Total dust)	10 mg/m3	2014-11-26



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— zinc dust (stabilised)					
zinc powder — zinc dust (stabilised)	7440-66-6	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	

#### 8.2 Exposure controls

## Personal protective equipment

Eye protection : Safety glasses

: Wear face-shield and protective suit for abnormal processing

problems.

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.

Skin and body protection : Long sleeved clothing

Safety shoes

Dust impervious protective suit

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Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Respiratory protection : Use suitable breathing protection if workplace concentration

requires.

Respirator with a dust filter

P1 filter

### **Environmental exposure controls**

General advice :

: 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.

Water : The product should not be allowed to enter drains, water

courses or the soil.

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## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : gold

Odour : odourless

pH : substance/mixture is non-soluble (in water)

Freezing point : No data available

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Boiling point/boiling range : No data available
Flash point : No data available
Bulk density : No data available

Flammability (solid, gas) : The substance or mixture is a flammable solid

with the category 1.

Auto-flammability : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Density : No data available
Water solubility : No data available

Miscibility with water : immiscible

Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Flow time : No data available

#### 9.2 Other information

No data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

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No decomposition if stored and applied as directed.

## 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No hazards

to be specially mentioned.

No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : No data available

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Other information : No data available

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Acute toxicity** 

#### **Components:**

Copper:

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

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ingestion.

#### Skin corrosion/irritation

#### **Product**

May cause skin irritation in susceptible persons.

## Serious eye damage/eye irritation

## **Product**

Eye irritation

## Respiratory or skin sensitisation

No data available

## Carcinogenicity

No data available

## Toxicity to reproduction/fertility

No data available

## Reprod.Tox./Development/Teratogenicity

No data available

## STOT - single exposure

No data available

## STOT - repeated exposure

No data available

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### **Aspiration toxicity**

No data available

#### **Further information**

#### **Product**

No data available

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

**Components:** 

copper (7440-50-8):

: 10 M-Factor

**Ecotoxicology Assessment** 

Short-term (acute) aquatic

: Very toxic to aquatic life.

hazard

Long-term (chronic) aquatic

hazard

zinc (7440-66-6):

**Ecotoxicology Assessment** 

Short-term (acute) aquatic

hazard

Long-term (chronic) aquatic

hazard

octadecylamine (124-30-1):

M-Factor : 10

12.2 Persistence and degradability

No data available

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: Very toxic to aquatic life.

: Very toxic to aquatic life with long lasting effects.

: Very toxic to aquatic life with long lasting effects.



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#### 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

#### **Product:**

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.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : 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.

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Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

# **SECTION 14: Transport information**

#### 14.1 UN number

ADR : 3089
TDG : 3089
CFR : 3089
IMDG : 3089
IATA : 3089

# 14.2 Proper shipping name

**ADR** : METAL POWDER, FLAMMABLE, N.O.S.

(Gold bronze powder, Copper metal powder)

**TDG** : METAL POWDER, FLAMMABLE, N.O.S.

(Gold bronze powder)

**CFR** : METAL POWDERS, FLAMMABLE, N.O.S.

(Gold bronze powder)

**IMDG** : METAL POWDER, FLAMMABLE, N.O.S.

(,Gold bronze powder ,Copper metal powder)

IATA : METAL POWDER, FLAMMABLE, N.O.S.

#### 14.3 Transport hazard class

ADR : 4.1 TDG : 4.1 CFR : 4.1 IMDG : 4.1

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**IATA** : 4.1

# 14.4 Packing group

#### **ADR**

Packaging group : II
Classification Code : F3
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : (E)

**TDG** 

Packaging group : II Labels : 4.1

**CFR** 

Packaging group : II Labels : 4.1

**IMDG** 

Packaging group : II Labels : 4.1

EmS Number : F-G, S-G

**IATA** 

Packing instruction (cargo : 448

aircraft)

Packing instruction : 445

(passenger aircraft)

Packing instruction (LQ) : Y441
Packaging group : II
Labels : 4.1

### 14.5 Environmental hazards

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ADR : Environmentally hazardous

**IMDG** : Marine pollutant

### 14.6 Special precautions for user

### IMDG Code- segregation group:

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

: IMDG Code segregation group 15 - Powdered metals

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

No data available

## **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that : Not applicable

deplete the ozone layer

Regulation (EU) 2019/1021 on persistent organic

pollutants (recast)

organic : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances

the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

: Not applicable

## 15.2 Chemical safety assessment

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No data available

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H228 : Flammable solid. H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation.

H373 : May cause damage to organs through prolonged or repeated

exposure if swallowed.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

The information provided in this 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.