

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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

Trade name : RICHPALE SUPEROTO 400 8021
Material number : 013586C20

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
Guntersthal 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

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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

GHS-Labeling

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.
 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.
 P391 Collect spillage.

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

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	20 - 25
octadecylamine	124-30-1 204-695-3	;2;H315 ;1;H318 STOT RE;2;H373 Asp. Tox.;1;H304 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,25 - 1

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

--	--	--	--

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.
 Move out of dangerous area.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
- If inhaled : Remove to fresh air.
 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 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.

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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, Carbon dioxide (CO₂)**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 : Standard procedure for chemical fires.

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. For safety reasons in case of fire, cans should be stored separately in closed containments. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use a water spray to cool fully closed containers.

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

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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 : The product should not be allowed to enter drains, water courses or the soil.

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.

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
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

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

instituted to ensure that dusts do not accumulate on surfaces.

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. Open drum carefully as content may be under pressure. 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. Provide appropriate exhaust ventilation at places where dust is formed. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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.
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/m ³		DE TRGS 900
zinc	7440-66-6	AGW (Inhalable fraction)	10 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
zinc	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child
---------------------	---

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
copper	7440-50-8	TWA	1 mg/m ³	2008-01-01	
copper	7440-50-8	TWA (dust and mists)	1 mg/m ³	2005-09-01	
copper	7440-50-8	TWA	1 mg/m ³	1989-01-19	
copper	7440-50-8	TWA	0,2 mg/m ³	2008-01-01	
copper	7440-50-8	TWA	0,1 mg/m ³	1989-01-19	
copper	7440-50-8	TWA (Dust and mist)	1 mg/m ³	2010-03-01	
copper	7440-50-8	TWA (Fumes)	0,2 mg/m ³	2010-03-01	
copper	7440-50-8	TWA (Dust)	1 mg/m ³	2013-10-08	
copper	7440-50-8	TWA (Mist)	1 mg/m ³	2013-10-08	
copper	7440-50-8	TWA (dusts and mists)	1 mg/m ³	2011-07-01	
copper	7440-50-8	TWA (Fumes)	0,1 mg/m ³	2011-07-01	
copper	7440-50-8	PEL (Fumes)	0,1 mg/m ³	2014-11-26	
copper	7440-50-8	TWA (Fumes)	0,1 mg/m ³	1989-01-19	
copper	7440-50-8	TWA (Dust and mist)	1 mg/m ³	1989-01-19	
zinc	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
zinc	7440-66-6	TWA (total dust)	15 mg/m ³	2012-07-01	

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

zinc	7440-66-6	TWA (respirable fraction)	5 mg/m ³	2012-07-01	
zinc	7440-66-6	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
zinc	7440-66-6	PEL (Total dust)	10 mg/m ³	2014-11-26	
zinc	7440-66-6	PEL (respirable dust fraction)	5 mg/m ³	2014-11-26	

8.2 Exposure controls
Personal protective equipment

Eye protection : Safety glasses

: Tightly fitting safety goggles

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

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

Safety shoes

- : Dust impervious protective suit
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
- : The product should not be allowed to enter drains, water courses or the soil.
 - : 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.

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)
: Not applicable
- Boiling point/boiling range : No data available

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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
Solubility(ies)	
Water solubility	: insoluble
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**

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

ingestion.

Skin corrosion/irritation**Product**

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation**Product**

May cause irreversible eye damage.

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

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

Aspiration toxicity

No data available

Further information**Product**

No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:****copper (7440-50-8) :**

M-Factor : 10

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

zinc (7440-66-6) :**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

octadecylamine (124-30-1) :

M-Factor : 10

Ecotoxicology Assessment

Short-term (acute) aquatic : Very toxic to aquatic life.

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

hazard
Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

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.

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

Do not contaminate ponds, waterways or ditches with
chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

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.
TDG : METAL POWDER, FLAMMABLE, N.O.S.
CFR : METAL POWDERS, FLAMMABLE, N.O.S.
IMDG : METAL POWDER, FLAMMABLE, N.O.S.
(,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

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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

IATA

Packing instruction (cargo aircraft) : 448
Packing instruction (passenger aircraft) : 445
Packing instruction (LQ) : Y441
Packaging group : II
Labels : 4.1

14.5 Environmental hazards

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

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

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 Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

RICHPALE SUPEROTO 400 8021

Version 4.0

Revision Date 16.02.2023

Print Date 18.02.2023

15.2 Chemical safety assessment

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.