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

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
	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

Page 1 / 20	102000028858	A member of C ALTANA
-------------	--------------	-----------------------------



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



RICHPALE SUPEROTO 400 8021

ersion 4.0	Revision Date 16.02.2023	Print Date 18.02.202
	Short-term (acute) aquatic hazard, Long-term (chronic) aquatic hazard	
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	
Precautionary statements	Rinse mouth. P305 + P351 + P338 IF IN EYES water for several minutes. Remove and easy to do. Continue rinsing. P337 + P317 If eye irritation pers P370 + P378 In case of fire: Use powder for metal fires.	No smoking. r and receiving equipment. cal/ ventilating/ lighting handling. when using this product. nment. btective clothing/ eye protection. OWED: Get medical help. S: Rinse cautiously with
ge 2 / 20	102000028858	A member of C ALTANA

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

Page 3 / 20	102000028858	A member of C ALTANA
-------------	--------------	-----------------------------





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		

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.

Page 4 / 20	102000028858	A member of C ALTANA
-------------	--------------	-----------------------------

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

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

on Extinguioning moula	
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

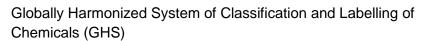
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

containers.

Page 5 / 20	102000028858	A member of C ALTANA







RICHPALE SUPEROTO 400 8021				
Revision Date 16.02.2023	Print Date 18.02.2023			
 Use personal protective equipment. Evacuate personnel to safe areas. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition. 				
: 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 sa If the product contaminates rivers and respective authorities.				
6.3 Methods and materials for containment and cleaning up				
: Use mechanical handling equipment.				
Pick up and transfer to properly labelle	d containers.			
Contain spillage, and then collect with vacuum cleaner or by wet-brushing an disposal according to local regulations Keep in suitable, closed containers for	d place in container for (see section 13).			
	 Revision Date 16.02.2023 Use personal protective equipment. Evacuate personnel to safe areas. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition. The product should not be allowed to e courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if sa If the product contaminates rivers and respective authorities. tainment and cleaning up Use mechanical handling equipment. Pick up and transfer to properly labelle Contain spillage, and then collect with vacuum cleaner or by wet-brushing an disposal according to local regulations 			

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

Page 6 / 20	102000028858	A member of 🜔 ALTANA
		CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR

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

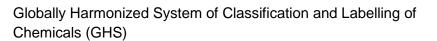
RICHPALE SUPEROTO 400 8021

Version 4.0	Revision Date 16.02.2023	Print Date 18.02.2023
	instituted to ensure that dusts do no	t accumulate on surfaces.
	Avoid formation of respirable particle vapours/dust. Avoid contact with ski protection see section 8. Smoking, e be prohibited in the application area content may be under pressure. Dis accordance with local and national r	in and eyes. For personal eating and drinking should a. Open drum carefully as pose of rinse water in
Advice on protection against fire and explosion	: Normal measures for preventive fire	e protection.
	Avoid dust formation. Provide appro at places where dust is formed. Kee hot surfaces and sources of ignition	p away from open flames,
Hygiene measures	: General industrial hygiene practice. hands before breaks and at the end from food and drink. Keep away from	of workday. Keep away
	When using do not eat or drink. Wh Wash hands before breaks and at th	
7.2 Conditions for safe storage, i	ncluding any incompatibilities	
Requirements for storage areas and containers	: Electrical installations / working mat the technological safety standards.	erials must comply with
	Keep away from sources of ignition store near combustible materials. Ke closed in a cool, well-ventilated plac quality, do not store in heat or direct	eep containers tightly ce. To maintain product
	No smoking. Keep container tightly ventilated place. Containers which a carefully resealed and kept upright t	are opened must be

CECKART

Page 7 / 20	102000028858	A member of C ALTANA
		A member of C ALIANA

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, stro strongly acid materials in order to avoi Do not store together with oxidizing ar	d exothermic reactions.
Dampness	: Keep in a dry, cool and well-ventilated	place.
Other data	: Keep in a dry place. No decomposition as directed.	n if stored and applied

7.3 Specific end use(s)

This information is not available.

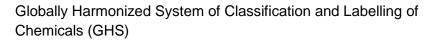
SECTION 8: Exposure controls/personal protection

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	7440-66-6	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information			ompliance with the on risk of harming the one of the other the oth	•	cal tolerance
zinc	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion2;(II)factor (category)					

Page 8 / 20	102000028858	A member of C ALTANA
-------------	--------------	-----------------------------



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/m3	2008-01-01	
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	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
zinc	7440-66-6	TWA (total dust)	15 mg/m3	2012-07-01	
/ 20		1020	00028858		

Page 9 / 20	102000028858	A member of 🜔 ALTANA





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

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

8.2 Exposure controls

Personal protective equip	ment		
Eye protection	:	Safety glasses	
	:	Tightly fitting safety goggles	
		Wear face-shield and protective problems.	e suit for abnormal processing
Hand protection			
Material	:	Leather	
Remarks	:	Leather gloves	
		The choice of an appropriate gl its material but also on other qu from one producer to the other.	ality features and is different
		The exact break through time c protective glove producer and t	
		Recommended preventive skin	protection
	:	The suitability for a specific wor with the producers of the protec	•
Skin and body protection	:	Long sleeved clothing	
Page 10 / 20		102000028858	A member of C ALTANA



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
		Safety shoes	
	:	Dust impervious protective suit	
		Choose body protection according to the concentration of the dangerous substated	
Respiratory protection	:	Use suitable breathing protection if wo requires.	rkplace concentration
		Respirator with a dust filter P1 filter	
Environmental exposure	contro	bls	
General advice	:	The product should not be allowed to e courses or the soil.	enter drains, water
	:	Prevent product from entering drains. Prevent further leakage or spillage if sa If the product contaminates rivers and respective authorities.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Page 11 / 20	102000028858	A member of C ALTANA
--------------	--------------	-----------------------------

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

RICHPALE SUPEROTO 400 8021

Version 4.0	Revision D	ate 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 with the category 1.	e is a flammable solid
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/wa	ater :	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

Page 12 / 20	102000028858	A member of C ALTANA
--------------	--------------	-----------------------------



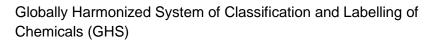
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

RICHPALE SUPEROTO 400 8021

Version 4.0	Revision Date 16.02.2023	Print Date 18.02.2023
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 to be specially mentioned.	conditions., No hazards
	No decomposition if stored and applic	ed as directed.
	Dust may form explosive mixture in a	ir.
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 decompositio	n products	
Other information	: No data available	
SECTION 11: Toxicological	information	
11.1 Information on toxicologi	cal effects	
Acute toxicity		
Components:		
copper :		
Acute oral toxicity	: The component/mixture is moderatel	y toxic after single
Dage 13 / 20	102000028858	

CECKART

Page 13 / 20	102000028858	A member of C ALTANA



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

Page 14 / 20	102000028858	A member of C ALTANA
--------------	--------------	-----------------------------



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

Aspiration toxicity

No data available

Further information

Product

No data available

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicology Assessment	•	10	
Short-term (acute) aquatic hazard	:	Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard zinc (7440-66-6) :	:	Very toxic to aquatic life with lon	ng lasting effects.
Ecotoxicology Assessment			
Short-term (acute) aquatic hazard	:	Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard octadecylamine (124-30-1) :	:	Very toxic to aquatic life with lon	ng lasting effects.
M-Factor Ecotoxicology Assessment	:	10	
Short-term (acute) aquatic		Very toxic to aquatic life.	





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

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

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	:	An environmental hazard cannot be excluded in the event of
information		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.

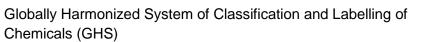
Page 16 / 20 102000028858 A member of **C ALTANA**



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
Contaminated packaging	Do not contaminate ponds, waterwa chemical or used container. Send to a licensed waste managem : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch c	ent company.
SECTION 14: Transport information		
14.1 UN number		
ADR	: 3089	
TDG	: 3089	

Page 17 / 20	102000028858	A member of C ALTANA
IMDG	: 4.1	
CFR	: 4.1	
TDG	: 4.1	
ADR	: 4.1	
14.3 Transport hazard class		
ΙΑΤΑ	: METAL POWDER, FLAMMABI	_E, N.O.S.
	(,Copper metal powder)	
IMDG	: METAL POWDER, FLAMMABI	_E, N.O.S.
CFR	: METAL POWDERS, FLAMMABLE, N.O.S.	
TDG	: METAL POWDER, FLAMMABI	_E, N.O.S.
ADR	: METAL POWDER, FLAMMABI	_E, N.O.S.
14.2 Proper shipping name		
ΙΑΤΑ	: 3089	
IMDG	: 3089	
CFR	: 3089	
TDG	: 3089	
	. 3009	

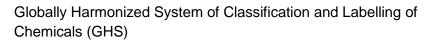




RICHPALE SUPEROTO 400 8021

Version 4.0	Revision Date 16.02.2023	Print Date 18.02.2023
ΙΑΤΑ	: 4.1	
14.4 Packing group		
ADR		
Packaging group	: 11	
Classification Code	: F3	
Hazard Identification Number	: 40	
Labels	: 4.1	
Tunnel restriction code	: (E)	
TDG		
Packaging group	: 11	
Labels	: 4.1	
CFR		
Packaging group	: 11	
Labels	: 4.1	
IMDG		
Packaging group	: 11	
Labels	: 4.1	
ΙΑΤΑ		
Packing instruction (cargo aircraft)	: 448	
Packing instruction (passenger aircraft)	: 445	
Packing instruction (LQ)	: Y441	
Packaging group	: 11	
Labels	: 4.1	
14.5 Environmental hazards		

Page 18 / 20	102000028858	A member of C ALTANA
--------------	--------------	-----------------------------





Version 4.0	Revision Date 16.02.2023	Print Date 18.02.2023
ADR IMDG	Environmentally hazardousMarine 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

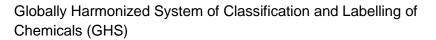
SECTION 15: Regulatory information

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

Page 19 / 20	102000028858	A member of C ALTANA
--------------	--------------	-----------------------------





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.

Page 20 / 20	102000028858	A member of C ALTANA
--------------	--------------	-----------------------------

