according to Regulation (EC) No. 1907/2006



## HK9224 RP UNIPAK 450 PALE LITHO INK

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

1.1 Product identifier	
Trade name	: HK9224 RP UNIPAK 450 PALE LITHO INK
Product code	: 014233RN0

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

Use of the	:	Colorant; Printing ink related material; Printing ink, Colouring
Substance/Mixture		agents, dyes

#### 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 of person responsible for the SDS	:	msds.eckart@altana.com

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

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

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

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2.2 Label	elements			
Labe	lling (REGULATION (	EC)	No 1272/2008)	
Haza	rd pictograms	:		
Signa	ll word	:	Warning	
Haza	rd statements	:	H302 H319 H410	Harmful if swallowed. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Preca	autionary statements	:	<b>Prevention:</b> P264 P273 P280 <b>Response:</b> P337 + P313	Wash skin thoroughly after handling. Avoid release to the environment. Wear eye protection/ face protection. If eye irritation persists: Get medical advice/
			P391 <b>Disposal:</b> P501	attention. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.

#### Hazardous components which must be listed on the label:

Copper

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

#### 3.2 Mixtures

#### Components

oomponenta			
Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	
	Registration number		
Copper	7440-50-8	Acute Tox. 4; H302	>= 25 - < 50
		Eye Irrit. 2; H319	
	231-159-6	Aquatic Acute 1;	
	01-2119480154-42	H400	
		Aquatic Chronic 1;	
		H410	

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			M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
hydro	ates (petroleum), treated middle; Gasoil — ecified	64742-46-7 265-148-2 649-221-00-X	Asp. Tox. 1; H304 EUH066	>= 10 - < .
Petro	leum resins	64742-16-1 265-116-8	Aquatic Chronic 4; H413	>= 2.5 - <
	oowder — zinc dust lised)	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.5 - <
	propyl-2,2- hyltrimethylene diisobutyrate	6846-50-0 229-934-9 01-2119451093-47	Repr. 2; H361d Aquatic Chronic 3; H412	>= 1 - < 2
mang	anese neodecanoate	27253-32-3 248-374-6	Skin Irrit. 2; H315	>= 1 - < 1
octad	ecylamine	124-30-1 204-695-3 612-282-00-8 01-2119473804-32	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 (Liver, Gastrointestinal tract, Immune system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0.25 - •
amine	es, hydrogenated tallow alkyl	61788-45-2 (90640-32-7) 262-976-6 612-284-00-9	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 (Liver, Gastrointestinal tract, Immune system)	>= 0.025 · 0.1

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			Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10

For explanation of abbreviations 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 skin irritation persists, call a physician. 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 Induce vomiting immediately and call a physician. 5 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. Take victim immediately to hospital.

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

Risks	:	Harmful if swallowed.
		Causes serious eye irritation.

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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 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.
	:	

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

#### 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions Evacuate personnel to safe areas. : Ensure adequate ventilation. Use personal protective equipment. **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

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		respective auth	orities.
6.3 Metho	ds and material for c	ontainment and clea	ning up
Metho	Methods for cleaning up		al handling equipment.
		Do not flush wi Contain spillag absorbent mate vermiculite) and	nsfer to properly labelled containers. th water. e, and then collect with non-combustible erial, (e.g. sand, earth, diatomaceous earth, d place in container for disposal according to regulations (see section 13).
Soak up with inert absorbent material (e.g. s acid binder, universal binder, sawdust). Keep in suitable, closed containers for dispo			iversal binder, sawdust).

#### 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	:	Do not breathe vapours/dust. Avoid contact with skin and ey		

J		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	:	Keep away from heat and sources of ignition. No smoking.
		Normal measures for preventive fire protection.
Hygiene measures	:	General industrial hygiene practice.
		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, i	incl	uding any incompatibilities
Requirements for storage areas and containers	:	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. Containers which are opened must be carefully

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		precautions	d kept upright to prevent leakage. Observe label . Electrical installations / working materials must the technological safety standards.		
-	urther information on torage conditions	: Protect from	: Protect from humidity and water.		
Advice on common storage		strongly acid	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 dr	y, cool and well-ventilated place.		
Further information on storage stability		: No decompo	osition if stored and applied as directed.		

#### 7.3 Specific end use(s)

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

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Copper	7440-50-8	TWA (Fumes)	0.2 mg/m3 (Copper)	GB EH40
		TWA (Dusts and mists)	1 mg/m3 (Copper)	GB EH40
		STEL (Dusts and mists)	2 mg/m3 (Copper)	GB EH40
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (Inhalable)	10 mg/m3	GB EH40
		TWA (Respirable fraction)	4 mg/m3	GB EH40

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Copper	Workers	Skin contact	Long-term systemic effects	137 mg/kg
	Workers	Skin contact	Acute systemic effects	273 mg/kg
	Workers	Inhalation	Long-term systemic effects	20 mg/m3
	Consumers	Inhalation	Long-term local effects	1 mg/m3
	Consumers	Inhalation	Acute local effects	1 mg/m3
	Consumers	Skin contact	Long-term systemic	137 mg/kg

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I			Í	offente	
		Consumers	Skin contact	effects Acute systemic effects	273 mg/kg
		Consumers	Ingestion	Long-term systemic effects	0.041 mg/
	owder — zinc stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m3
		Workers	Skin contact	Long-term systemic effects	83 mg/kg
		Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3
		Consumers	Skin contact	Long-term systemic effects	83 mg/kg
		Consumers	Ingestion	Long-term systemic effects	0.83 mg/k
dimet	propyl-2,2- hyltrimethylene putyrate	Workers	Skin contact	Long-term systemic effects	5.00 mg/k
		Workers	Inhalation	Long-term systemic effects	17.62 mg/
		Consumers	Ingestion	Long-term systemic effects	5.00 mg/k
		Consumers	Skin contact	Long-term systemic effects	5.00 mg/k
		Consumers	Inhalation	Long-term systemic effects	4.35 mg/m
amine tallow	es, hydrogenated alkyl	Workers	Inhalation	Long-term systemic effects	0.38 mg/m
		Workers	Inhalation	Long-term local effects	1 mg/m3
		Workers	Inhalation	Acute local effects	1 mg/m3
		Consumers	Inhalation	Long-term systemic effects	0.035 mg/
		Consumers	Oral	Long-term systemic effects	0.04 mg/k

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Copper	Fresh water	0.0078 mg/l
	Marine water	0.0052 mg/l
	STP	0.230 mg/l
	Fresh water sediment	87 mg/kg
	Marine sediment	676 mg/kg
	Soil	65 mg/kg
zinc powder — zinc dust (stabilised)	Fresh water	0.0206 mg/l
	Marine water	0.0061 mg/l
	STP	0.100 mg/l
	Fresh water sediment	235.6 mg/kg
	Marine sediment	121 mg/kg
	Soil	35.6 mg/kg

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1-isopropyl-2,2- dimethyltrimethylene diisobutyrate		Fresh water		0.014 mg/l
	<u>,</u>	Marine water		0.0014 mg/l
		Fresh water s	ediment	5.29 mg/kg
		Soil		1.05 mg/kg
		STP		3 mg/l
		Marine sedim	ent	0.529 mg/kg
		oral (seconda	ry poisoning)	83.3 mg/kg
amines, hydrogenated tallow alkyl		Fresh water		0.00026 mg/l
		Marine water		0.000026 mg/l
		Sewage treat	nent plant	0.55 mg/kg
		Fresh water s	ediment	3.76 mg/kg
		Marine sedim	ent	376 mg/kg
		Soil		10 mg/kg
		Intermittent R	elease	0.0016 mg/l

#### 8.2 Exposure controls

Personal protective equipment				
Eye/face protection :	Safety glasses			
	Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.			
Hand protection Material :	Solvent-resistant gloves (butyl-rubber)			
Remarks :	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.			
Skin and body protection :	Impervious clothing 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			

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		requires. Equipment sho	uld conform to EN 14387

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

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

Physical state	:	liquid
Colour	:	gold
Odour	:	characteristic
Odour Threshold	:	No data available
Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 100 °C
Auto-ignition temperature	:	Not relevant
Decomposition temperature	:	No data available
рН	:	substance/mixture is non-soluble (in water)
Viscosity Viscosity, kinematic	:	> 21 mm2/s (40 °C)
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available

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Relat	ve density	:	No data available	9
Dens	ity	:	No data available	9
Relat	ve vapour density	:	No data available	9
Pa	article Size Distribution	:	No data available	9
9.2 Other	information			

No data available

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

#### 10.1 Reactivity

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 decomposition if stored and applied as directed.
10.4 Conditions to avoid		
Conditions to avoid	:	Do not allow evaporation to dryness.
		No data available
10.5 Incompatible materials		

#### **10.6 Hazardous decomposition products**

 Thermal decomposition
 : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed.		
Hammu II Swalloweu.		
Product:		
Acute oral toxicity	:	Acute toxicity es

Acute toxicity estimate: 1,300 mg/kg Method: Calculation method

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Comp	oonents:			
Сорр	er:			
	oral toxicity		sment: The ingestion.	component/mixture is moderately toxic af
zinc p	oowder — zinc dust	(stabilised):		
Acute	oral toxicity	: (Rat):	> 2,000 mg	g/kg
Acute	inhalation toxicity	Exposi	(Rat): 5.41 ure time: 4 tmosphere:	h
1-isor	propyl-2,2-dimethylt	rimethylene d	liisobutyra	ite:
-	dermal toxicity	: LD50 [	Jermal (Ra	bbit): > 2,000 mg/kg est Guideline 402
amine	es, hydrogenated tal	low alkyl:		
		-		
Acute	oral toxicity			00 - 5,000 mg/kg est Guideline 401
	oral toxicity corrosion/irritation			
Skin o	·	Method	d: OECD T	
Skin o Not cl	corrosion/irritation assified based on ava <u>uct:</u>	Methoo ailable informa	d: OECD T tion.	est Guideline 401
<b>Skin d</b> Not cl	corrosion/irritation assified based on ava <u>uct:</u>	Methoo ailable informa	d: OECD T tion.	
<b>Skin d</b> Not cl <u>Produ</u> Rema	corrosion/irritation assified based on ava <u>uct:</u>	Methoo ailable informa	d: OECD T tion.	est Guideline 401
Skin o Not cl <u>Produ</u> Rema	corrosion/irritation assified based on ava uct: arks ponents:	Methoo ailable informa	d: OECD T tion.	est Guideline 401
<b>Skin d</b> Not cl <u>Produ</u> Rema	corrosion/irritation assified based on ava <u>uct:</u> arks ponents: er:	Metho ailable informa : May ca	d: OECD T tion. ause skin ir	est Guideline 401
Skin o Not cl Produ Rema Comp Rema	corrosion/irritation assified based on ava <u>uct:</u> arks ponents: er:	Metho ailable informa : May ca : May ca	d: OECD T tion. ause skin ir	est Guideline 401 ritation and/or dermatitis. ritation in susceptible persons.
Skin o Not cl Produ Rema Copp Rema 1-isop Specie	corrosion/irritation assified based on ava <u>uct:</u> arks <u>conents:</u> er: arks propyl-2,2-dimethylt es	Method ailable informa : May ca : May ca rimethylene d : Rabbit	d: OECD T tion. ause skin ir ause skin ir <b>liisobutyra</b>	est Guideline 401 ritation and/or dermatitis. ritation in susceptible persons.
Skin o Not cl Produ Rema Comp Rema 1-isop Specia Expos	corrosion/irritation assified based on ava <u>uct:</u> arks <u>conents:</u> er: arks propyl-2,2-dimethylt es sure time	Method ailable informa : May ca : May ca rimethylene d : Rabbit : 4 h	d: OECD T tion. ause skin ir ause skin ir <b>liisobutyra</b>	est Guideline 401 ritation and/or dermatitis. ritation in susceptible persons.
Skin o Not cl Produ Rema Copp Rema 1-isop Specie	corrosion/irritation assified based on ava <u>uct:</u> arks <u>conents:</u> er: arks propyl-2,2-dimethylt es sure time od	Method ailable informa : May ca : May ca : May ca : Rabbit : A h : OECD	d: OECD T tion. ause skin ir ause skin ir <b>liisobutyra</b>	est Guideline 401 ritation and/or dermatitis. ritation in susceptible persons.
Skin o Not cl Produ Rema Copp Rema 1-isop Specia Expos Metho Resul	corrosion/irritation assified based on ava <u>uct:</u> arks <u>conents:</u> er: arks propyl-2,2-dimethylt es sure time od	Method ailable informa : May ca : May ca : May ca rimethylene d : Rabbit : 4 h : OECD : No skin	d: OECD T tion. ause skin ir ause skin ir <b>liisobutyra</b> Test Guide	est Guideline 401 ritation and/or dermatitis. ritation in susceptible persons.
Skin o Not cl Produ Rema Copp Rema 1-isop Specia Expos Metho Resul	corrosion/irritation assified based on ava <u>uct:</u> arks <u>conents:</u> er: arks propyl-2,2-dimethylt es sure time od t	Method ailable informa : May ca : May ca : May ca rimethylene d : Rabbit : 4 h : OECD : No skin	d: OECD T tion. ause skin ir ause skin ir <b>liisobutyra</b> Test Guida n irritation	est Guideline 401 ritation and/or dermatitis. ritation in susceptible persons.
Skin o Not cl Produ Rema Copp Rema 1-isop Specia Expos Metho Resul mang Resul	corrosion/irritation assified based on ava <u>uct:</u> arks <u>conents:</u> er: arks propyl-2,2-dimethylt es sure time od t	Method ailable informa : May ca : May ca : May ca : Rabbit : 4 h : OECD : No skin e:	d: OECD T tion. ause skin ir ause skin ir <b>liisobutyra</b> Test Guida n irritation	est Guideline 401 ritation and/or dermatitis. ritation in susceptible persons.

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Resu	lt	:	Skin irritation	
Rema	Remarks		May cause ski	n irritation in susceptible persons.
Serio	ous eye damage/eye	irritati	ion	
Caus	es serious eye irritatio	on.		
Prod	uct:			
Rema	arks	:	May cause irre	eversible eye damage.
Com	ponents:			
Сорр	ber:			
Resu	lt	:	Eye irritation	
1-iso	propyl-2,2-dimethylt	trimet	nylene diisobut	yrate:
Speci		:	Rabbit	
	sure time	:	72 h	
Metho		:	OECD Test Gu	
Resu	π	:	No eye irritatio	'n
	decylamine:		0	
Asses	ssment	:	Corrosive	
	es, hydrogenated ta	llow a	-	
Resu	lt	:	Irreversible eff	ects on the eye
Rema	arks	:	May cause irre	eversible eye damage.
Resp	iratory or skin sens	itisatio	on	
	sensitisation			
Not c	lassified based on av	ailable	information.	
-	<b>iratory sensitisation</b> lassified based on ava		information.	
Germ	n cell mutagenicity			
	lassified based on av	ailable	information.	
Carci	inogenicity			
Not c	lassified based on av	ailable	information.	
<u>Com</u>	ponents:			
Distil	llates (petroleum), h	ydrotr	eated middle; (	Sasoil — unspecified:
	nogenicity - ssment	:		ed on the conditions cited in Nota N (Regulatic )8, Annex VI, Part 3, Note N)
			-	

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#### Reproductive toxicity

Not classified based on available information.

#### **Components:**

#### 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Reproductive toxicity -:Some evidence of adverse effects on development, based on<br/>animal experiments.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### **Components:**

#### octadecylamine:

Exposure routes	:	Ingestion
Target Organs	:	Liver, digestive system, Immune system
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

#### amines, hydrogenated tallow alkyl:

Target Organs	:	Liver, Gastrointestinal tract, Immune system
Assessment	:	The substance or mixture is classified as specific target organ
		toxicant, repeated exposure, category 2.

#### Aspiration toxicity

Not classified based on available information.

#### **Components:**

#### octadecylamine:

May be fatal if swallowed and enters airways.

#### amines, hydrogenated tallow alkyl:

May be fatal if swallowed and enters airways.

#### 11.2 Information on other hazards

#### **Further information**

#### Product:

Remarks

: No data available

#### **Components:**

Copper:

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Re	emarks	:	No data available	
zi	nc powder — ziı	nc dust (stabi	lised):	
R	emarks	:	No data available	
SECT	ION 12: Ecolog	gical informa	tion	
2.1 To	oxicity			
<u>C</u>	omponents:			
C	opper:			
	-Factor (Short-tei quatic hazard)	rm (acute) :	10	
	-Factor (Long-ter hronic) aquatic h		10	
E	cotoxicology As	sessment		
Ad	cute aquatic toxic	city :	Very toxic to aqua	tic life.
CI	hronic aquatic to	kicity :	Very toxic to aqua	tic life with long lasting effects.
Pe	etroleum resins:	:		
E	cotoxicology As	sessment		
CI	hronic aquatic to	kicity :	May cause long la	sting harmful effects to aquatic life.
zi	nc powder — ziı	nc dust (stabi	lised):	
E	cotoxicology As	sessment		
Ad	cute aquatic toxic	city :	Very toxic to aqua	tic life.
CI	hronic aquatic to	kicity :	Very toxic to aqua	tic life with long lasting effects.
1-	isopropyl-2,2-di	methyltrimeth	ylene diisobutyra	te:
	oxicity to daphnia quatic invertebrate		(Daphnia (water f	lea)): 2.46 mg/l
E	cotoxicology As	sessment		
CI	hronic aquatic to	kicity :	Harmful to aquation	c life with long lasting effects.
00	ctadecylamine:			
M	-Factor (Short-tei quatic hazard)	rm (acute) :	10	

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		or (Long-term c) aquatic hazard)	:	10		
		<b>kicology Assessment</b> aquatic toxicity	:	Very toxic to aqua	atic life.	
	Chroni	c aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.	
	M-Fact	s, hydrogenated tallo or (Short-term (acute) hazard)		-		
		or (Long-term c) aquatic hazard)	:	10		
	Ecoto	cicology Assessment				
	Acute a	aquatic toxicity	:	Very toxic to aqua	atic life.	
	Chroni	c aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.	
		<b>tence and degradabil</b> a available	ity			
		<b>cumulative potential</b> a available				
		<b>ty in soil</b> a available				
12.5	Result	s of PBT and vPvB as	sse	ssment		
	Produ	<u>ot:</u>				
	Assess	ment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or id very bioaccumulative (vPvB) at levels of	
12.6 Endocrine disrupting properties No data available						
12.7	Other	adverse effects				
	Produc Additio informa	nal ecological	:	unprofessional ha	hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.	

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ersion .0	Revision Date: 27.02.2023		DS Number: 2000000158	Print Date: 28.02.2023 Date of first issue: 19.03.2014
<u>Comp</u>	oonents:			
Сорр	er:			
	onal ecological	:	unprofessional ha	I hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.
zinc p	oowder — zinc dust (s	tabi	lised):	
Additi inform	onal ecological nation	:	unprofessional ha	I hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.
amine	es, hydrogenated tallo	w a	lkyl:	
Additi inform	onal ecological	:		I hazard cannot be excluded in the event of andling or disposal.
				atic life with long lasting effects.
ECTION	l 13: Disposal consid	dera	Very toxic to aqua	atic life with long lasting effects.
ECTION		dera	Very toxic to aqua	atic life with long lasting effects.
ECTION Europ	l 13: Disposal consid	dera	Very toxic to aqua ations 08 01 11 - waste	atic life with long lasting effects.
ECTION Europ	I 13: Disposal consid bean Waste Catalogue e treatment methods	dera :	Very toxic to aqua ations 08 01 11 - waste or other dangerou The product shou courses or the so Do not contamina chemical or used	atic life with long lasting effects. paint and varnish containing organic solvent us substances uld not be allowed to enter drains, water iil. ate ponds, waterways or ditches with

ADR	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper metal powder)

according to Regulation (EC) No. 1907/2006



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	IMDG		:	ENVIRONMENTA N.O.S. (Copper metal po	ALLY HAZARDOUS SUBSTANCE, LIQUID, wder)	
	ΙΑΤΑ		:	Environmentally hazardous substance, liquid, n.o.s. (Copper metal powder)		
14.3	Transp	oort hazard class(es)				
				Class	Subsidiary risks	
	ADR		:	9		
	IMDG		:	9		
	ΙΑΤΑ		:	9		
14.4	Packin	ig group				
	Classifi Hazard Labels Tunnel IMDG Packing Labels EmS C IATA (I Packing Packing Labels IATA (I Packing Labels	<b>Cargo)</b> g instruction (cargo		III M6 90 9 (-) III 9 F-A, S-F 964 Y964 III 9 964 Y964 III 9		
14.5 Environmental hazards						
	<b>ADR</b> Enviror	nmentally hazardous	:	yes		
	<b>IMDG</b> Marine	pollutant	:	yes		
14.6 Special precautions for user			r			
Remarks		:	packagings conta	jings <=5L / 5 kg, or combination ining inner packagings <= 5L / 5 kg net per SV375 ADR, 2.10.2.7 IMDG-Code, A197		

according to Regulation (EC) No. 1907/2006



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#### IATA-DGR may be applied.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3 Distillates (petroleum), hydrotreated middle; Gasoil — unspecified (Number on list 3) 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (Number on list 3) manganese neodecanoate (Number on list 3) Distillates (petroleum), hydro- treated light; Kerosine — unspecified (Number on list 3)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

#### 15.2 Chemical safety assessment

No data available

according to Regulation (EC) No. 1907/2006



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

Full text of H-Statements				
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.		
H361d	:	Suspected of damaging the unborn child.		
H373	:	May cause damage to organs through prolonged or repeated		
		exposure.		
H400	:	Very toxic to aquatic life.		
H410	:	Very toxic to aquatic life with long lasting effects.		
H412	:	Harmful to aquatic life with long lasting effects.		
H413	:	May cause long lasting harmful effects to aquatic life.		
EUH066	:	Repeated exposure may cause skin dryness or cracking.		
Full text of other abbreviations				
Acute Tox.	:	Acute toxicity		
Aquatic Acute	:	Short-term (acute) aquatic hazard		
Aquatic Chronic	:	Long-term (chronic) aquatic hazard		
Asp. Tox.	:	Aspiration hazard		
Eye Dam.	:	Serious eye damage		
Eye Irrit.	:	Eye irritation		
Repr.	:	Reproductive toxicity		
Skin Irrit.	:	Skin irritation		
STOT RE	:	Specific target organ toxicity - repeated exposure		
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits		
GB EH40 / TWA :		Long-term exposure limit (8-hour TWA reference period)		
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx · Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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



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Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

Classification of the	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Eye Irrit. 2	H319	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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.

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