according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## **METALSTAR PANTONE 872 07 2872**

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

1.1 Product identifier

Trade name : METALSTAR PANTONE 872 07 2872

Product code : 076461RN0

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, H400: Very toxic to aquatic life.

Category 1

Long-term (chronic) aquatic hazard, H410: Very toxic to aquatic life with long lasting

Category 1 effects.

#### 2.2 Label elements

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

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Hazard pictograms :

**!**>**⟨!** 

Signal word : Warning

Hazard statements : H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting

effects.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

Response:

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P391 Collect spillage.

Disposal:

P501 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

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
	231-159-6	Eye Irrit. 2; H319	
		Aquatic Acute 1;	
	01-2119480154-42	H400	
		Aquatic Chronic 1;	
		H410	
		M Factor (Acuto	
		M-Factor (Acute	
		aquatic toxicity): 10	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		M-Factor (Chronic aquatic toxicity): 10	
Distillates (petroleum), hydrotreated middle; Gasoil — unspecified	64742-46-7 265-148-2 649-221-00-X	Asp. Tox. 1; H304 EUH066	>= 10 - < 20
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 10 - < 20
Petroleum resins	64742-16-1 265-116-8	Aquatic Chronic 4; H413	>= 2.5 - < 10
1-isopropyl-2,2- dimethyltrimethylene diisobutyrate	6846-50-0 229-934-9 01-2119451093-47	Repr. 2; H361d Aquatic Chronic 3; H412	>= 1 - < 2.5
octadecylamine	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 - < 1
amines, 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) Asp. Tox. 1; H304 Aquatic Acute 1;	>= 0.025 - < 0.1

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			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.

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.

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.

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

This information is not available.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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#### **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.
Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

#### **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

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.

5 / 21

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Pick up and transfer to properly labelled containers.

Do not flush with water.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

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 : 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

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, including 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 resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must

comply with the technological safety standards.

Further information on storage conditions

Protect from humidity and water.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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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.

To her oters to getter than extending and earling than graining pr

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

Further information on

storage stability

: No decomposition 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	Dermal	Long-term systemic effects	137 mg/kg
	Workers	Dermal	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	Dermal	Long-term systemic effects	137 mg/kg
	Consumers	Dermal	Acute systemic effects	273 mg/kg
	Consumers	Oral	Long-term systemic effects	0.041 mg/kg
zinc powder — zinc dust (stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m3

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	Workers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3
	Consumers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Oral	Long-term systemic effects	0.83 mg/kg
1-isopropyl-2,2- dimethyltrimethylene diisobutyrate	Workers	Dermal	Long-term systemic effects	5.00 mg/kg
	Workers	Inhalation	Long-term systemic effects	17.62 mg/m3
	Consumers	Oral	Long-term systemic effects	5.00 mg/kg
	Consumers	Dermal	Long-term systemic effects	5.00 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.35 mg/m3
amines, hydrogenated tallow alkyl	Workers	Inhalation	Long-term systemic effects	0.38 mg/m3
	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/m3
	Consumers	Oral	Long-term systemic effects	0.04 mg/kg

# 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
1-isopropyl-2,2- dimethyltrimethylene diisobutyrate	Fresh water	0.014 mg/l
	Marine water	0.0014 mg/l
	Fresh water sediment	5.29 mg/kg
	Soil	1.05 mg/kg

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	STP	3 mg/l
	Marine sediment	0.529 mg/kg
	oral (secondary poisoning)	83.3 mg/kg
amines, hydrogenated tallow alkyl	Fresh water	0.00026 mg/l
	Marine water	0.000026 mg/l
	Sewage treatment plant	0.55 mg/kg
	Fresh water sediment	3.76 mg/kg
	Marine sediment	376 mg/kg
	Soil	10 mg/kg
	Intermittent Release	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

requires.

Equipment should conform to EN 14387

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

# 9.1 Information on basic physical and chemical properties

Form : liquid

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Colour : gold

Odour : characteristic

Odour Threshold : No data available

Freezing point : No data available

Boiling point/boiling range : > 100 °C

Flammability : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point :  $> 100 \, ^{\circ}\text{C}$ 

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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

Viscosity

Viscosity, kinematic : > 21 mm2/s (40 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

cient: n- : No data available

octanol/water

Vapour pressure : No data available

Vapor Pressure for Components:

Distillates (petroleum), : 4 hPa (40 °C)

hydrotreated middle;

 ${\sf Gasoil-unspecified}$ 

1-isopropyl-2,2- : 1.5 Pa (25 °C)

dimethyltrimethylene

diisobutyrate

amines, hydrogenated : < 1 hPa (20 °C)

tallow alkyl

Relative density : No data available

Density : 1.4 g/cm3

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Relative vapour density : No data available

Particle characteristics

Particle Size Distribution : No data available

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.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 1,497 mg/kg

Method: Calculation method

**Components:** 

Copper:

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

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single ingestion.

zinc powder - zinc dust (stabilised):

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

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

Exposure time: 4 h

Test atmosphere: dust/mist

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

amines, hydrogenated tallow alkyl:

Acute oral toxicity : LD50 (Rat): > 2,000 - 5,000 mg/kg

Method: OECD Test Guideline 401

Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Remarks : May cause skin irritation in susceptible persons.

**Components:** 

Copper:

Remarks : May cause skin irritation in susceptible persons.

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

octadecylamine:

Assessment : Irritating to skin.

amines, hydrogenated tallow alkyl:

Result : Skin irritation

Remarks : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Causes serious eye irritation.

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**Product:** 

Remarks : May cause irreversible eye damage.

**Components:** 

Copper:

Result : Eye irritation

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Species : Rabbit Exposure time : 72 h

Method : OECD Test Guideline 405

Result : No eye irritation

octadecylamine:

Assessment : Corrosive

amines, hydrogenated tallow alkyl:

Result : Irreversible effects on the eye

Remarks : May cause irreversible eye damage.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

**Components:** 

Distillates (petroleum), hydrotreated middle; Gasoil — unspecified:

Carcinogenicity - : Classified based on the conditions cited in Nota N (Regulation

Assessment (EC) 1272/2008, Annex VI, Part 3, Note N)

Reproductive toxicity

Not classified based on available information.

Components:

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Reproductive toxicity -

Some evidence of adverse effects on development, based on

Assessment 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:

Remarks : No data available

zinc powder - zinc dust (stabilised):

Remarks : No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### **Components:**

Copper:

M-Factor (Short-term (acute) : 10

aquatic hazard)

M-Factor (Long-term 10

(chronic) aquatic hazard)

**Ecotoxicology Assessment** 

Acute aquatic toxicity Very toxic to aquatic life.

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

zinc powder - zinc dust (stabilised):

M-Factor (Short-term (acute)

aquatic hazard)

M-Factor (Long-term 1

(chronic) aquatic hazard)

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

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

Petroleum resins:

**Ecotoxicology Assessment** 

Chronic aquatic toxicity May cause long lasting harmful effects to aquatic life.

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Toxicity to daphnia and other : (Daphnia (water flea)): 2.46 mg/l

aquatic invertebrates

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

octadecylamine:

M-Factor (Short-term (acute) :

aquatic hazard)

M-Factor (Long-term 10

(chronic) aquatic hazard)

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**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

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

amines, hydrogenated tallow alkyl:

M-Factor (Short-term (acute) : 10

aquatic hazard)

M-Factor (Long-term : 10

(chronic) aquatic hazard)

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : 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

**Product:** 

Assessment : 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.

12.6 Endocrine disrupting properties

No data available

12.7 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.

**Components:** 

Copper:

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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zinc powder — zinc dust (stabilised):

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.

amines, hydrogenated tallow alkyl:

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** 

European Waste Catalogue : 08 03 12\* - waste ink containing dangerous substances

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.

Contaminated packaging : Empty remaining contents.

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

**SECTION 14: Transport information** 

14.1 UN number or ID number

ADR : UN 3082 IMDG : UN 3082 IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Copper metal powder)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Copper metal powder)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(Copper metal powder)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

**IMDG** 

Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964
Packing group : III
Labels : 9

IATA (Passenger)

Packing instruction : 964

(passenger aircraft)

Packing instruction (LQ) : Y964
Packing group : III
Labels : 9

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : yes

**IMDG** 

Marine pollutant : yes

14.6 Special precautions for user

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

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

IATA-DGR may be applied.

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.

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#### 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)

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great

Britain)

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

Not applicable

: Not applicable

Not applicable

#### 15.2 Chemical safety assessment

No data available

#### **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.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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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: AllC - 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 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** 

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Classification of the mixture: 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

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