

Version 2.0 DE SDS Number: 300000007861 Revision Date: 28.06.2021

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

Product identifier : Rhoduna PT ONE Inital Concentrate

Product code : 30000007861

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

Use of the Sub-

stance/Mixture

: Electroplating

1.3 Details of the supplier of the safety data sheet

Company : Umicore Galvanotechnik GmbH

Klarenbergstraße 53-79 73525 Schwäbisch Gmünd

Germany

E-mail address of person

responsible for the SDS

: galvano@eu.umicore.com

1.4 Emergency telephone number

Poison Center

Telephone : +49 30 192 40

Hours of operation : 24HRS

<u>Supplier</u>

Emergency telephone num-

ber

: For transport in Europe, Central- and South America, Israel and Africa (Non-Arabic speaking countries): (+32) 3 213 15 70 For transport in the Middle East (Israel excluded) & Arabic

speaking Africa: (+32) 3 213 33 79

For transport in the USA and Canada: (+1)-877 986 4267 For transport in Asian and the Pacific (China excluded): (+65)

62 64 78 36

For transport in China: (+86) 400 88 71 190

Hours of operation : This telephone number is available 24 hours per day, 7 days

per week.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.



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Skin corrosion, Category 1 H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Long-term (chronic) aquatic hazard, Cat-

egory 3

H412: Harmful to aquatic life with long lasting ef-

fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

Sulphuric acid orthophosphoric acid

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 30 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 1 %



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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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sulphuric acid	7664-93-9 231-639-5 016-020-00-8 01-2119458838-20	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 specific concentration limit Skin Corr. 1A; H314 >= 15 % Skin Irrit. 2; H315 5 - < 15 % Eye Irrit. 2; H319 5 - < 15 %	<= 29
orthophosphoric acid	7664-38-2 231-633-2 015-011-00-6	Skin Corr. 1B; H314 Eye Dam. 1; H318 specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 %	<= 1
dirhodium trisulphate	10489-46-0 234-014-5 01-2120760608-47	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 Muta. 2; H341 Aquatic Acute 1; H400 Aquatic Chronic 1;	<= 0,5



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H410
EUH071

M-Factor (Acute aquatic toxicity):
M-Factor (Chronic aquatic toxicity):

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

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

attention immediately.

In case of skin contact : If on skin, rinse well with water.

If on clothes, remove clothes.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul-

ty.

Wash contaminated clothing before reuse.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness. Remove contact lenses.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. Do NOT induce vomiting.

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

Symptoms : Skin contact may provoke the following symptoms:

Burn

corrosive effects

Redness

In case of eye contact Excessive lachrymation



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4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

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

courses.

Hazardous combustion prod- : Sulphur oxides

ucts

5.3 Advice for firefighters

Special protective equipment:

for firefighters

No special protective equipment required.

Further information 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Neutralize with chalk, alkali solution or ammonia.

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

acid binder, universal binder, sawdust).



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6.4 Reference to other sections

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 ap-

plication area.

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : Avoid contact with skin, eyes and clothing. General industrial

hygiene practice. Wash hands before breaks and immediately

after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

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. To maintain product quality, do not store in

heat or direct sunlight.

Advice on common storage : Keep away from strong bases.

Keep away from metals.

Storage class (TRGS 510) : 8B, Non-combustible, corrosive hazardous materials

Further information on stor-

Keep in a dry place.

age 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	Control parameters	Basis
		of exposure)		
Sulphuric acid	7664-93-9	AGW (Inhalable	0,1 mg/m3	DE TRGS
		fraction)		900
	Peak-limit: excursion factor (category): 1;(I)			
	Further information: When there is compliance with the OEL and biological			
	tolerance values, there is no risk of harming the unborn child			
		TWA (Mist)	0,05 mg/m3	2009/161/EU
	Further information: Indicative			
		TWA (Thoracic	0,2 mg/m3	ACGIH



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		particulate mat- ter)		
orthophosphoric acid	7664-38-2	TWA	1 mg/m3	2000/39/EC
	Further information: Indicative			
		STEL	2 mg/m3	2000/39/EC
	Further information: Indicative			
		AGW (Inhalable fraction)	2 mg/m3	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(I) Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
	tororanoe vare	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Sulphuric acid	Workers	Inhalation	Acute local effects	0,1 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,05 mg/m3
orthophosphoric acid	Workers	Inhalation	Long-term systemic effects	10,7 mg/m3
	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
	Workers	Inhalation	Acute local effects	2 mg/m3
	Consumers	Inhalation	Long-term systemic effects	4,57 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0,36 mg/m3
	Consumers	Oral	Long-term systemic effects	0,1 mg/kg bw/day

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

Substance name	Environmental Compartment Value		
Sulphuric acid	Fresh water	0,0025 mg/l	
	Sediment	0,002 mg/l	
	Marine water	0,00025 mg/l	
	Marine sediment	0,002 mg/l	
	Sewage treatment plant	8,8 mg/l	

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye protection : Wear face-shield and protective suit for abnormal processing

problems.

Wear safety glasses with side shields or goggles.

Hand protection

Material : Nitrile rubber
Break through time : > 30 min
Glove thickness : 0,40 mm



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Skin and body protection : Impervious clothing

Footwear protecting against chemicals

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : yellow

Odour : No data available

Melting point/range : not determined

Boiling point/boiling range : not determined

Flash point : does not flash

Auto-ignition temperature : No data available

pH : ca. 1

Viscosity

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : completely miscible

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : not determined

Density : ca. 1,15 g/cm3

9.2 Other information

Flammability (liquids) : Does not sustain combustion.

Metal corrosion rate : Corrosive to metals

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable at normal ambient temperature and pressure.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

according to Regulation (EC) No. 1907/2006



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Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Strong bases

Alkali metals

Alkaline earth metals

Metals

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Components:

Sulphuric acid:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 0,375 mg/l

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: no

Acute dermal toxicity : Assessment: No data available

Remarks: data waiving in REACH dossier

orthophosphoric acid:

Acute oral toxicity : LD50 (Rat, female): 34.000 mg/kg

Method: OECD Test Guideline 423

GLP: no

Acute inhalation toxicity : Assessment: No data available

Acute dermal toxicity : Assessment: No data available

dirhodium trisulphate:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral tox-

icity

Remarks: data waiving in REACH dossier

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: data waiving in REACH dossier

according to Regulation (EC) No. 1907/2006



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Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : Assessment: No data available

Remarks: data waiving in REACH dossier

Skin corrosion/irritation

Components:

Sulphuric acid:

Result : Corrosive after 3 minutes or less of exposure

Remarks : data waiving in REACH dossier

orthophosphoric acid:

Result : Corrosive after 3 minutes to 1 hour of exposure

dirhodium trisulphate:

Species : in vitro membrane barrier

Exposure time : 1 h

Assessment : Causes burns.

Method : OECD Test Guideline 435

Result : Corrosive after 3 minutes to 1 hour of exposure

GLP : yes

Serious eye damage/eye irritation

Components:

Sulphuric acid:

Remarks : data waiving in REACH dossier

Not classified due to data which are conclusive although insuf-

ficient for classification.

dirhodium trisulphate:

Assessment : Corrosive

Remarks : data waiving in REACH dossier

Respiratory or skin sensitisation

Components:

Sulphuric acid:

Exposure routes : Skin contact

Remarks : data waiving in REACH dossier

Exposure routes : Inhalation

Remarks : data waiving in REACH dossier

dirhodium trisulphate:

Remarks : No data available



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Germ cell mutagenicity

Components:

Sulphuric acid:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium TA98, TA100, TA1535,

TA1537

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Based on read across from structural related sub-

stance

Test Type: Ames test

Test system: Salmonella typhimurium TA97, TA98, TA100,

TA102, TA 1535

Metabolic activation: with and without metabolic activation

Method: No guideline followed

Result: negative

GLP: no

Genotoxicity in vivo : Remarks: data waiving in REACH dossier

dirhodium trisulphate:

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: Salmonella typhimurium TA98, TA100, TA102,

TA 1535, TA1537

Concentration: 160,300,625,1250,2500,5000µg/p

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male and female)

Strain: NMRI

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: positive GLP: yes

Germ cell mutagenicity- As-

sessment

In vitro tests showed mutagenic effects

Remarks: Based on read across from structural related sub-

stance

Rhodium(III)-chloride hydrate.



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Carcinogenicity

Components:

Sulphuric acid:

Species : Rat, male and female

Application Route : oral (gavage)

Method : No guideline followed

Symptoms : Some evidence of a weak local carcinogenic activity

GLP : no

Remarks : Classification not possible

Species : Mouse, male and female

Application Route : oral (gavage)

Method : No guideline followed

Symptoms : Some evidence of a weak local carcinogenic activity

GLP : no

dirhodium trisulphate:

Remarks : No data available

Carcinogenicity - Assess-

ment Remarks: Based on read across from structural related sub-

stance

Rhodium(III)-chloride hydrate.

Reproductive toxicity

Components:

Sulphuric acid:

Effects on fertility : Remarks: data waiving in REACH dossier

Effects on foetal develop-

ment

Test Type: Developmental toxicity study

Species: Rabbit Strain: NZW

Application Route: inhalation (aerosol)

Dose: 0, 5, 20 mg/m³

Duration of Single Treatment: 12 d

General Toxicity Maternal: NOAEC: 5,7 mg/m³ Developmental Toxicity: NOAEC: 19,3 mg/m³

Method: OECD Test Guideline 414

GLP: no

Test Type: Developmental toxicity study

Species: Mouse Strain: CF1

Application Route: inhalation (aerosol)

Dose: 0, 5, 20 mg/m³

Duration of Single Treatment: 9 d

General Toxicity Maternal: NOAEC: 5,7 mg/m³ Developmental Toxicity: NOAEC: 19,3 mg/m³

Method: OECD Test Guideline 414

GLP: no

according to Regulation (EC) No. 1907/2006



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dirhodium trisulphate:

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

Remarks: No data available

Reproductive toxicity - As-

sessment

Remarks: Based on read across from structural related sub-

stance

Rhodium(III)-chloride hydrate.

STOT - single exposure

Components:

Sulphuric acid:

Exposure routes : Inhalation, Ingestion, Skin contact

dirhodium trisulphate:

Remarks : No data available

STOT - repeated exposure

Components:

Sulphuric acid:

Exposure routes : Inhalation

dirhodium trisulphate:

Remarks : No data available

Repeated dose toxicity

Components:

Sulphuric acid:

Species : Rat, female

0,3 mg/m³

Application Route : inhalation (aerosol)

Exposure time : 28 d Number of exposures : 5 d/w

Dose : 0, 0.2, 1.0, 5.0 mg/m3
Method : OECD Test Guideline 412

GLP : yes

dirhodium trisulphate:

Remarks : No data available

according to Regulation (EC) No. 1907/2006



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Aspiration toxicity

Components:

Sulphuric acid:

Not classified due to data which are conclusive although insufficient for classification.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Sulphuric acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 16 mg/l

Exposure time: 96 h Test Type: static test

GLP: no

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

Toxicity to microorganisms : NOEC (activated sludge): 26.000 mg/l

Exposure time: 37 d



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Method: No data available

GLP: no

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOEC: 0,025 mg/l Exposure time: 65 days

Species: Jordanella floridae (flagfish)

GLP: no

Remarks: Fresh water

dirhodium trisulphate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 310 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Remarks: No data available

Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,29 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: no

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 0,656

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,046

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Based on data from similar materials

Toxicity to microorganisms

Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

Remarks: No data available

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

according to Regulation (EC) No. 1907/2006



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12.2 Persistence and degradability

Components:

Sulphuric acid:

: Remarks: data waiving in REACH dossier Biodegradability

12.3 Bioaccumulative potential

Components:

Sulphuric acid:

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-

octanol/water

: Remarks: data waiving in REACH dossier

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

Product:

Assessment The substance/mixture does not contain components consid-

> ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

mation

Additional ecological infor- : Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and



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national regulations.

Dispose of in accordance with the European Directives on

waste and hazardous waste.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Contaminated packaging : Empty remaining contents.

Dispose of contaminated packaging as if unused product.

Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADN : UN 3264
ADR : UN 3264
RID : UN 3264
IMDG : UN 3264
IATA : UN 3264

14.2 UN proper shipping name

ADN : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid, phosphoric acid)

ADR : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid, phosphoric acid)

RID : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid, phosphoric acid)

IMDG : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Sulphuric acid, phosphoric acid)

IATA : Corrosive liquid, acidic, inorganic, n.o.s.

(Sulphuric acid, phosphoric acid)

14.3 Transport hazard class(es)

ADN : 8



ADR : 8





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RID : 8

113.0 N. 3.3.0

IMDG : 8

8

IATA : 8



14.4 Packing group

ADN

Packing group : II
Classification Code : C1
Hazard Identification Number : 80
Labels : 8

ADR

Packing group : II
Classification Code : C1
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)
Limited quantity : 1,00 L

RID

Packing group : II
Classification Code : C1
Hazard Identification Number : 80
Labels : 8

IMDG

Packing group : II
Labels : 8
EmS Code : F-A, S-B
IMDG segregationcode : Acids

IATA (Cargo)

Packing instruction (cargo : 855

aircraft)

Maximum quantity : 30,00 L
Packing instruction (LQ) : Y840
Packing group : II

Labels : Corrosive

IATA (Passenger)

Packing instruction (passen- : 851



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ger aircraft)

Maximum quantity : 1,00 L
Packing instruction (LQ) : Y840
Packing group : II
Labels : Corrosive

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 3

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 de-

plete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

according to Regulation (EC) No. 1907/2006



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Acquisition, introduction, possession or use of the explo-

Sulphuric acid (ANNEX I)

sive precursor by the general public is restricted.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving

Not applicable

dangerous substances.

Water contaminating class

(Germany)

: WGK 2 obviously hazardous to water

Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:

Not applicable

Inorganic substances in powdered form:

Not applicable

Inorganic substances in vapour or gaseous form:

Not applicable Organic Substances: Not applicable

Carcinogenic substances:

Not applicable Mutagenic: Not applicable Toxic to reproduction:

Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : Not in compliance with the inventory

DSL : This product contains the following components listed on the

Canadian NDSL. All other components are on the Canadian

DSL.

dihydrogen bis(nitrito-N)[sulphato(2-)-O,O']platinate(2-)

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory



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PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

CH INV : On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H290 : May be corrosive to metals.

H314 : Causes severe skin burns and eye damage.

H318 : Causes serious eye damage.

H341 : Suspected of causing genetic defects.

H400 : Very toxic to aquatic life.

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

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage
Met. Corr. : Corrosive to metals
Muta. : Germ cell mutagenicity

Skin Corr. : Skin corrosion

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first

list of indicative occupational exposure limit values

2009/161/EU : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing

a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending

Commission Directive 2000/39/EC

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

2000/39/EC / TWA : Limit Value - eight hours
2000/39/EC / STEL : Short term exposure limit
2009/161/EU / TWA : Limit Value - eight hours
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European 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 - Interna-

according to Regulation (EC) No. 1907/2006



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tional 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; 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 mixture: Classification procedure:

Met. Corr. 1	H290	Based on product data or assessment
Skin Corr. 1	H314	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment
Aquatic Chronic 3	H412	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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