

## SAFETY DATA SHEET



### DORA RP (Bath) Initial Concentration

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

Product identification: DORA RP (Bath) Initial Concentration

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

Use of the Substance/Mixture: Electroplating

##### 1.3 Details of the supplier of the safety data sheet

Company: DORACCI CO. LTD.  
JEWELER & PRODUCTS  
UNIT 3  
84 FINBOROUGH ROAD  
SW10 9ED  
LONDON, ENGLAND

Telephone: +44 (0)7551 934975

E-mail address of person: [Info@doracci.co.uk](mailto:Info@doracci.co.uk)

[www.Doracci.co.uk](http://www.Doracci.co.uk)

Hours of operation: This telephone number is available 24 hours per day,  
5 days per week (Monday – Friday).

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#### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008) as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)**

Skin	Corrosive to metals, Category 1	H290: May be corrosive to metals.
	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	H412: Harmful to aquatic life with long lasting

**2.2 Label elements Labelling (REGULATION (EC) No 1272/2008) as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)**

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 protection/ 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 immediately 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 %

### 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.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
sulphuric acid	7664-93-9 231-639-5 016-020-00-8	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
		10 - < 25 %	

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dirrhodium trisulphate	10489-46-0 234-014-5	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 Muta. 2; H341 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 1	<= 0.5
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## 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 difficulty.  
Wash contaminated clothing before reuse.

## In case of eye contact

Small amounts splashed into eyes can cause irreversible tissue 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 circumstances and the surrounding environment.

Unsuitable extinguishing media	High volume water jet
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#### 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.
Hazardous combustion products:	Sulphur oxides Oxides of phosphorus

#### 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.

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### 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.
Environmental precautions:	6.2 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



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#### 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.
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.
Further information on storage stability:	Keep in a dry place. 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
sulphuric acid	7664-93-9	TWA (Mist, thoracic fraction)	0.05 mg/m <sup>3</sup>	GB EH40
		TWA (Mist)	0.05 mg/m <sup>3</sup>	2009/161/EU
Further information: Indicative				

		TWA (Thoracic particulate matter)	0.2 mg/m3	ACGIH
orthophosphoric acid	7664-38-2	TWA	1 mg/m3	GB EH40
		STEL	2 mg/m3	GB EH40
		TWA	1 mg/m3	2000/39/EC
Further information: Indicative				
		STEL	2 mg/m3	2000/39/EC
Further information: Indicative				
		TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
dirhodium trisulphate	10489-46-0	TWA	0.001 mg/m3 (Rhodium)	GB EH40
		STEL	0.003 mg/m3 (Rhodium)	GB EH40
		TWA	0.01 mg/m3 (Rhodium)	ACGIH

#### Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
sulphuric acid	Workers	Inhalation	Acute local effects	0.1 mg/m3
	Workers	Inhalation	Long-term local effects	0.05 mg/m3
orthophosphoric acid	Workers	Inhalation	Long-term systemic effects	10.7 mg/m3
	Workers	Inhalation	Long-term local effects	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 effects	0.36 mg/m3
	Consumers	Oral	Long-term systemic effects	0.1 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC):

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

Skin and body protection: Impervious clothing  
Footwear protecting against chemicals



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#### SECTION 9: Physical and chemical properties

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

Appearance	: liquid
Colour	: yellow
Odour	: No data available
pH	: ca. 1
Melting point/range	: not determined
Boiling point/boiling range	: not determined
Flash point	: does not flash
Vapour pressure	: not determined
Density ca.	: 1.15 g/cm <sup>3</sup>
Solubility(ies) Water solubility	: completely miscible
Partition coefficient: octanol/water:	No data available
Auto-ignition temperature	: No data available
Viscosity, Viscosity, kinematic	: not determined

##### 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

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.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity Components:

##### sulphuric acid:

Test	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
	atmosphere	: dust/mist
	Method	: OECD Test Guideline 403 GLP: no
	Acute dermal toxicity	: Assessment: No data available

##### 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



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|| Acute dermal toxicity : Assessment: No data available  
**dirhodium trisulphate:**

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

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

Assessment: Corrosive to the respiratory tract.

|| Acute dermal toxicity : Assessment: No data available

#### Skin

|| **corrosion/irritation**

**components:**

|| **sulphuric acid:**

Result : Corrosive after 3 minutes or less of exposure



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#### orthophosphoric acid:

Result : Corrosive after 3 minutes to 1 hour of exposure

#### dirrhodium

#### 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:

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

#### trisulphate:

Assessment	: Corrosive
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#### Respiratory or skin sensitisation

##### Components: sulphuric acid:

Exposure routes	: Skin contact
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Exposure routes	: Inhalation
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#### dirrhodium trisulphate:

Remarks	: No data available
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#### Germ cell mutagenicity

##### Components: sulphuric

##### acid:



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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 substance

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

#### **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

Germ cell mutagenicity-  
Assessment

Cell type: Bone marrow

Application Route:

Intraperitoneal injection

Method: OECD Test

Guideline 474

Result: positive

GLP: yes

In vitro tests showed  
mutagenic effects



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Remarks: Based on read across from

Rhodium(III)-chloride hydrate.

#### Carcinogenicity

##### Components:

##### dirhodium trisulphate:

Remarks : No data available

Structural related substance

Duration of single treatment: 12 d

General Toxicity Maternal: NOAEC: 5.7 mg/m<sup>3</sup>

Carcinogenicity - Assessment :

Remarks: Based on read across from structural substance Rhodium(III)-chloride hydrate.

#### Reproductive toxicity

##### Components:

##### sulphuric acid:

Effects on foetal development:

Developmental Toxicity: NOAEC: 19.3

Method: OECD Test Guideline 414

GLP: no

mg/m<sup>3</sup>

Test Type: Developmental toxicity study

Species: Rabbit

Strain: NZW

Application

on

Route:

inhalation

n

(aerosol

) Dose:

0, 5, 20

mg/m<sup>3</sup>

Test Type: Developmental toxicity study

Species: Mouse

Strain: CF1

Application Route: inhalation (aerosol)

Dose: 0, 5, 20 mg/m<sup>3</sup>

Duration of Single Treatment: 9 d

General Toxicity Maternal: NOAEC: 5.7

Developmental Toxicity: NOAEC: 19.3

Method: OECD Test Guideline 414

GLP: no

mg/m<sup>3</sup>

mg/m<sup>3</sup>

dirhodium trisulphate:



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### DORA RP (Bath) Initial Concentration

Effects on fertility	: Remarks: No data available
Effects on foetal development	: Remarks: No data available
Reproductive toxicity - Assessment	: Remarks: Based on read across from structural related substance 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/m <sup>3</sup>
Application Route	: inhalation (aerosol)
Exposure time	: 28 d
Number of exposures	: 5 d/w
Dose	: 0, 0.2, 1.0, 5.0 mg/m <sup>3</sup>
Method	: OECD Test Guideline 412
GLP	: yes

**dirhodium trisulphate:**

**||** Remarks : No data available



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#### Aspiration toxicity

**Components:** sulphuric

**acid:**

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

#### Further information

**Product:**

Remarks : No data available

### SECTION 12: Ecological information

#### 12.1 Toxicity

No data available

#### 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

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties 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:**

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



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

Plants 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  
Method: No data available

GLP: no

Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: 0.025 mg/l  
Exposure time: 65 days  
Species: Jordanella floridae (flagfish)

GLP: no

Remarks: Fresh water

##### **dirrhodium 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





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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

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : 1  
Remarks: No data available

Toxicity to fish (Chronic toxicity) : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic 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.

#### 12.2 Persistence and

##### degradability Components:

sulphuric acid:



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|| **dirhodium trisulphate:**  
Biodegradability : Result: Readily biodegradable.

|| **12.3 Bioaccumulative**  
|| **potential Components:**

|| **sulphuric acid:**  
Bioaccumulation : Remarks: Not applicable

|| octanol/water

|| **dirhodium trisulphate:**  
Bioaccumulation : Remarks: No data available  
Partition coefficient: n- : Remarks: Not applicable  
octanol/water

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

##### Product:

Assessment : This is 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 infor- : Harmful to aquatic life with long lasting effects.  
mation



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#### SECTION 13: Disposal considerations

##### 13.1 Waste treatment methods

- |                        |  |
|------------------------|--|
| Product                | : The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company.<br>Dispose of as hazardous waste in compliance with local and national regulations. |
| Contaminated packaging | : Empty remaining contents.<br>Dispose of contaminated packaging as if unused product.<br>Do not re-use empty containers.  |

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#### SECTION 14: Transport information

##### 14.1 UN number

ADN	: UN 3264
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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..

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(Sulphuric acid, phosphoric acid)

#### 14.3 Transport hazard class(es)

ADR



8

RID



8

IMDG



8

IATA



8

#### 14.4 Packing group

ADN

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



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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 segregation code : Acids

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 855  
Maximum quantity : 30.00 L  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosive

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 851  
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



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#### 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.

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## 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

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

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable



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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not 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.
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory

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KECI	: On the inventory, or in compliance with the inventory
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
TECI	: Not in compliance with the inventory

#### 15.2 Chemical safety assessment

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## SAFETY DATA SHEET

### DORA RP (Bath) Initial Concentration

#### 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)
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
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
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 - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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





## SAFETY DATA SHEET

### DORA RP (Bath) Initial Concentration

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; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Classification of the mixture:

Met. Corr. 1	H290
Skin Corr. 1	H314
Eye Dam. 1	H318
Aquatic Chronic 3	H412

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
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.