# According to Regulation n. 1907/2006 and Regulation 878/2020 Rh Sulphate in solution (CoC)



Revision n. 6 - 22.08.2025

1.3

Replaces revision n. 5 - 11.09.2024

# IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1** Product identifier

Commercial name Rh Sulphate in solution (CoC)

Product code 1360

Registration number is not available for this product as it is

a mixture

UFI code 7SR3-90CU-F003-9U9R

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

Recommended uses Industrial use. Additive for electroplating

Uses adviced against None in particular **Details of the supplier of the safety data sheet** 

Name FAGGI ENRICO S.P.A.

Adress Via Majorana, 101/103 50019 Sesto Fiorentino FI

Telephone number 055311861 Fax number 055311791

Competent person

responsible for the safety lorenzo.magaldi@faggi.it

data sheet

1.4 Emergency telephone 111 - Medical helpline operating in England, in Scotland (NHS

**number** 24) and in Wales (NHS Direct Wales)

2. HAZARDS IDENTIFICATION

# 2.1 Classification of the mixture according to Regulation (EC) n. 1272/2008

Hazard class	Category codes	<b>Hazards indications</b>	
Met. corrosive	1	H290	
Skin corrosive	1 A	H314	
Eye damage	1	H318	
Aq. Acute	1	H400	
Aa. Chronic	1	H410	

# 2.2 Label elements

**Pictograms** 





Signal word	DANGER (sulfuric acid, dirodium trisulfate)	
Hazard statements	H290	May be corrosive to metals
	H314	Causes severe skin burns and eye damage.
	H400	Very toxic to aquatic life
	H410	Very toxic to aquatic life with
		long lasting effects.
Precautionary advice		
	P280	Wear protective
		gloves/protective
		clothing/eye protection/face protection.
	P301+P330+P331	IF SWALLOWED: rinse mouth.
		Do NOT induce vomiting.

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		P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
		P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
		P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
		P308 + P313	IF exposed or concerned: get medical advice/attention.	
	UFI code	7SR3-90CU-F003-9U9R		
	Other hazards	It does NOT contain PBT / vPvB substances according		
		Regulation (EC) 1907/2006, and	nex XIIIIt does NOT contain	
		substances that interfere with	the endocrine system in	
,		accordance with Regulation (EC) 1907/2006 art.59 para		
		1 and in accordance with the criteria established in		
		Regulation (EU) 2017/2100 and	Regulation (EU) 2018/605.	
	CONTROCITION /INICORMATION	ON INCREDIENTS		

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.2 Mixure

2.3

Product identifier Concentration %		Classification	
		<b>Hazard classes</b>	Hazard
		Category codes	statements
Dirodium trisulfate		Met. Corr 1	H290
CAS 10489-46-0		Skin Corr. 1B	H314
CE: 234-014-5		Eye Dam. 1	H318
INDEX: not available	20 < C < 25	Aq. Acute 1	H400
REACH N °: exempt for quantity	20 2 C 2 23	Aq. Chronic 1	H410
STA: not applicable		Corrosive to the	EUH071
M factor (acute): 1		respiratory tract	
M factor (chronic): 1			
Sulfuric acid			
CAS 7664-93-9			
EC 231-639-5			
INDEX 016-020-00-8			
Reach No: 01-2119458838-20-XXXX		Skin Corr. 1 A	1124.4
STA: not applicable	7 ≤ C ≤ 15	Skin Corr. 1 A	H314
Specific limits:			
Skin Corr. 1A: C ≥ 15%			
Skin Irrit. 2: H315 5% ≤ C <15%			
Eye Irrit. 2: H319 5% ≤ C <15%			
M Factors: not applicable			
FIRST AID MEASURES			
Description of first aid measures			

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4.1

4.

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Inhalation Keep the injured person at rest in an airy and warm environment. In

case of respiratory arrest, use artificial respiration methods

Ingestion Do not induce vomiting. Drink plenty of water and consult a doctor Contact with skin Take off contaminated clothing immediately. Immediately wash skin

with plenty of soap and water. Consult a physician

Contact with eyes Immediately flush eyes with plenty of water while holding the eyelids

apart. Do not use eye drops or ointments. Consult an

ophthalmologist specialist

### Recommendations:

• For first aiders, wear PPE

Need to see a doctor immediately
 Possibility of delayed effects following exposure
 Move the exposed individual from the place of exposure to the open air
 Remove the clothing and shoes of the exposed individual
 How to handle contaminated clothing
 YES
 With gloves

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

Eye, nose and throat irritation, chest pain, choking, skin irritation, corneal burns, skin burn (after severe exposure), nausea, vomiting: Abundant and bleeding mucous secretions, bronchitis, pulmonary edema, corneal necrosis, tissue necrosis, perforation of the gastrointestinal tract.

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

Consult a physician immediately. Emergency showers and eye washing systems must be available in the workplace.

## 5. FIREFIGHTING MEASURES

# 5.1 Extinguishing media

Suitable extinguishing media Water spray, carbon dioxide, foam.

Unsuitable extinguishing media None in particular

# 5.2 Special hazards arising from the substance or mixture

If involved in a fire it can develop sulfur oxides, toxic for inhalation.

# 5.3 Advice for firefighters

Equipment

**General information** Prevent the water used to extinguish the fire from

flowing into the sewer, groundwater or surface

YES

water. Cool containers at risk with water. Normal fire-fighting clothing, such as self-

contained open-circuit compressed air breathing apparatus (EN137), flame retardant suit (EN469), flame retardant gloves (EN659) and firefighter

boots (HOA29 or A30)

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

## **6.1.1.** For non-emergency personnel

Move away from the contaminated area immediately and keep upwind.

# **6.1.2.** For emergency responders

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To wear

Gloves for chemical risks compliant with EN420 EN374 Standards Complete clothing compliant with the UNI EN 13034: 2006 standard Semi-face masks with ABEK2P3 R filters conforming to EN14387: 2004 + A1: 2008

### 6.2 Environmental precautions

Prevent infiltration into the sewer, groundwater, and surface water

# 6.3 Methods and material for containment and cleaning up

# 6.3.1. Advice in order to contain a spill

Contain spill with appropriate absorbent material (sand, bentonite) and place in airtight container. Sprinkle the spill with baking soda to neutralize the acidity.

## 6.3.2. Advice in order to clean-up a spill

Wash the area with plenty of water.

### 6.3.3 Other information

None

### 6.4 Reference to other sections

None

### 7. HANDLING AND STORAGE

## 7.1. Precautions for safe handling

7.1.1. Raccomentations in order to manipulate the substance or the mixture in a safe manner, such as containement measures and prevention of fire and aereosol and powders formation

Keep in original sealed and labeled packaging

## 7.1.2. General recommendation on work hygiene

Do not eat, drink and smoke in work areas. Wash your hands after use. Remove contaminated clothing and protective equipment before entering eating areas

# 7.2. Conditions Safe storage, including any incompatibilities

Keep away from bases.

# 7.2.1. Risk management associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances or mixtures, evaporative conditions, potential ignition sources

Store in the original containers and close them immediately after use.

# 7.2.2 Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations

Store in a cool, dry place.

# 7.2.3. Conditions for keeping substances / mixtures intact

The packages must be well closed and labeled.

# 7.2.4 Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging

Use PE and PP plastic packaging or other resistant materials. Keep the packages in a containment basin.

# 7.3. Specific end use(s)

Industrial use. Additive for electroplating.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters (related to sulfuric acid)

**SULPHURIC ACID** 

**DNEL** 

Workers

Systemic effects for long-term exposure – inhalation: no hazard identified

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Systemic effects for short-term exposure – inhalation: no hazard identified

Local effects for long-term exposure – inhalation: 0.05 mg/m3 Local effects for short-term exposure – inhalation: 0.1 mg/m3

Systemic effects for long-term exposure – dermal: no hazard identified Systemic effects for short-term exposure – dermal: no hazard identified

Local effects for long-term exposure – dermal: high hazard (no derived threshold) Local effects for short-term exposure – dermal: high hazard (no derived threshold)

Eye hazards: high risk (no derived threshold)

## **General population**

Systemic effects for long-term exposure — inhalation: no hazard identified
Systemic effects for short-term exposure — inhalation: no hazard identified
Local effects for long-term exposure — inhalation: high hazard (no derived threshold)
Local effects for short-term exposure — inhalation: high hazard (no derived threshold)
Systemic effects for long-term exposure — dermal: no hazard identified
Systemic effects for short-term exposure — dermal: no hazard identified
Local effects for long-term exposure — dermal: high hazard (no derived threshold)
Local effects for short-term exposure — dermal: high hazard (no derived threshold)
Systemic effects for long-term exposure — oral: no hazard identified
Systemic effects for short-term exposure — oral: no hazard identified
Eye hazards: high hazard (no derived threshold)

#### **PNEC**

Fresh water: no hazard identified Marine water: no hazard identified

Sewage treatment plant: no hazard identified Sediment (fresh water): no hazard identified Sediment (sea water): no hazard identified

Soil: no hazard identified **DIRHODIUM TRISULPHATE** 

### **DNEL**

No data available up to now

## **PNEC**

Chronic Ecotoxic Reference Value (ERV): 46 µg Rh/L (P. subcapitata)(growth rate) Acute Ecotoxic Reference Value (ERV): 290 µg Rh/L (D. magna)

# 8.2. Exposure controls

## **8.2.1.** Appropriate engineering controls

Skin protection (body)

Use only under a fume hood. Emergency showers and eye washing system near the work area.

### 8.2.2. Individual protection measures, such as personal protective equipment

**Eye/face protection** Splash goggles compliant with Directive 89/686 /

EEC and standard EN166: 2001

**Skin protection (hands)** Chemical gloves according to EN 420 EN 374

Glove material: Fluorinated rubber

Material thickness: 0.5 mm

Penetration time: ≥ 60 min DIN EN374 method Complete clothing compliant with the UNI EN

13034: 2006 standard

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> Semi-face masks with ABEK2P3 R filters conforming **Respiratory protection**

to EN14387: 2004 + A1: 2008 Thermal hazards Information not available

#### 8.2.3. **Environmental exposure controls**

Maintain suction in all environments using localized collection and ambient air exchange systems. Convey the aspirated volumes to an abatement system and then into the atmosphere. Do not use recirculating air suction systems. Avoid any spillage into the environment.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state Liquid Color Dark brown Odor **Pungent** About -1 ° C Melting point / freezing point

Boiling point or initial boiling point and

About 105 ° C boiling range

Not inflammable Flammability Lower and upper explosive limits Not explosive Not inflammable Flash point Self-ignition temperature Not inflammable

Decomposition temperature The mixture does not decompose

Not applicable

Data not available Cinematic viscosity Solubility Fully miscible in water

Production coefficient n-octanol / water

(logarithmic value)

2.33 KPa at 20 ° C Vapor pressure Density and / or relative density 1.15 g / cm3 Relative vapor density Data not available Characteristics of the particles Not applicable

Other information 9.2.

None

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

The product exhibits strongly acidic behavior

#### 10.2 Chemical stability

Stable under normal storage conditions

#### 10.3 Possibility of hazardous reactions

It can generate flammable gases and ignite in contact with organic sulphides, elemental metals and strong reducing agents. It can generate toxic gases in contact with halogenated organic substances, sulphides, nitrides, nitriles, organophosphates and strong oxidizing agents.

10.4 Conditions to avoid

Overheating

#### 10.5 Incompatible materials

Bases, organic substances

#### 10.6 Hazardous decomposition products

Sulfur oxides

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11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008  Acute toxicity Based on available data, the classification criteria are not met  Serious eye damage/irritation Respiratory or skin sensitization Respiratory or skin sensitization Reproductive toxicity Based on available data, the classification criteria are not met  Carcinogenicity Based on available data, the classification criteria are not met  Reproductive toxicity Based on available data, the classification criteria are not met  Reproductive toxicity Based on available data, the classification criteria are not met  STOT – single exposure Based on available data, the classification criteria are not met  STOT – repeated exposure Based on available data, the classification criteria are not met  11.2 Information on other hazards None  12.1 Information on other hazards None  12.2 ECOLOGICAL INFORMATION  12.1 Toxicity Dirhodium trisulphate  LC 50 (fish) 96 h: 220 mg / L  ECSO (Daphnia magna) 48 h: 290 μg / L Rh  ECSO (Daphnia magna) 48 h: 290 μg					
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Germ cell mutagenicity are not met are n			Respiratory or skin sensitization	Based on available data, the classification criteria	
Carcinogenicity   Based on available data, the classification criteria are not met					
Carcinogenicity are not met			Germ cell mutagenicity	Based on available data, the classification criteria	
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LC 50 (fish) 96 h: 220 mg / L EC50 (Daphnia magna) 48 h: 290 μg / L Rh EC50 (algae) 72 h: 4.5 mg/L Rh EC50 (algae) 72 h: 4.	12.		ECOLOGICAL INFORMATION		
12.2   Persistence and degradability   Not persistent		12.1	Toxicity	Dirhodium trisulphate	
ECSO (algae) 72 h: 4.5 mg/L Rh   12.2				LC 50 (fish) 96 h: 220 mg / L	
12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil 12.5 Results of PBT and vPvB assessment Not classified 12.6 Endocrine disrupting properties 12.7 Other adverse effects None known 12.7 Other adverse effects None in particular 13. DISPOSAL CONSIDERATIONS 13.1. Waste treatment methods The substance and its packaging must be disposed of as hazardous waste by authorized companies. 14. TRANSPORT INFORMATION 14.1 UN number or ID number UN3264 14.2 Official UN shipping name ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate) 14.3 Transport hazard class ADR/RID/ADN/IMDG/ICAO-IATA Class 8 ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard ADR: Tunnel restriction code E IMDG - EmS: F-A, S-B 14.4 Packing group I 14.5 Dangers for the environment				EC50 (Daphnia magna) 48 h: 290 μg / L Rh	
12.3 Bioaccumulative potential Undefined 12.4 Mobility in soil Undefined 12.5 Results of PBT and vPvB assessment Not classified 12.6 Endocrine disrupting properties None known 12.7 Other adverse effects None in particular 13. DISPOSAL CONSIDERATIONS 13.1. Waste treatment methods The substance and its packaging must be disposed of as hazardous waste by authorized companies. 14. TRANSPORT INFORMATION 14.1 UN number or ID number UN3264 14.2 Official UN shipping name ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate) 14.3 Transport hazard class ADR/RID/ADN/IMDG/ICAO-IATA Class 8 ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard ADR: Tunnel restriction code IMDG - EmS: F-A, S-B 14.4 Packing group I 14.5 Dangers for the environment				EC50 (algae) 72 h: 4.5 mg/L Rh	
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12.5 Results of PBT and vPvB assessment Not classified  12.6 Endocrine disrupting properties None known  12.7 Other adverse effects None in particular  13.1 DISPOSAL CONSIDERATIONS  13.1. Waste treatment methods		12.3	Bioaccumulative potential	Not bioaccumulative	
12.6 Endocrine disrupting properties None known 12.7 Other adverse effects None in particular  13. DISPOSAL CONSIDERATIONS  13.1. Waste treatment methods		12.4	Mobility in soil	Undefined	
12.7 Other adverse effects None in particular  13. DISPOSAL CONSIDERATIONS  13.1. Waste treatment methods The substance and its packaging must be disposed of as hazardous waste by authorized companies.  14. TRANSPORT INFORMATION  14.1 UN number or ID number UN3264  14.2 Official UN shipping name ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate)  14.3 Transport hazard class ADR/RID/ADN/IMDG/ICAO-IATA Class 8 ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard ADR: Tunnel restriction code E IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment		12.5	Results of PBT and vPvB assessme	nt Not classified	
13.1. Waste treatment methods The substance and its packaging must be disposed of as hazardous waste by authorized companies.  14. TRANSPORT INFORMATION  14.1 UN number or ID number UN3264  14.2 Official UN shipping name ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate)  14.3 Transport hazard class ADR/RID/ADN/IMDG/ICAO-IATA Class 8 ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard ADR: Tunnel restriction code IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment		12.6	<b>Endocrine disrupting properties</b>	None known	
13.1. Waste treatment methods The substance and its packaging must be disposed of as hazardous waste by authorized companies.  14. TRANSPORT INFORMATION  14.1 UN number or ID number UN3264  14.2 Official UN shipping name ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate)  14.3 Transport hazard class ADR/RID/ADN/IMDG/ICAO-IATA Class 8 ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard ADR: Tunnel restriction code IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment		12.7	Other adverse effects	None in particular	
The substance and its packaging must be disposed of as hazardous waste by authorized companies.  14. TRANSPORT INFORMATION  14.1 UN number or ID number UN3264  14.2 Official UN shipping name  ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate)  14.3 Transport hazard class  ADR/RID/ADN/IMDG/ICAO-IATA Class 8  ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard  ADR: Tunnel restriction code E  IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment	13.		DISPOSAL CONSIDERATIONS		
authorized companies.  TRANSPORT INFORMATION  14.1 UN number or ID number  ADR/RID/ADN/IMDG/ICAO-IATA  ADR/RID/ADN/IMDG/ICAO-IATA  ADR/RID/ADN/IMDG/ICAO-IATA  ADR: Tunnel restriction code  IMDG - EmS:  Packing group  14.3 TRANSPORT INFORMATION  UN3264  Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate)  Class 8  ADR/RID/ADN/IMDG/ICAO-IATA  ADR: Tunnel restriction code  IMDG - EmS:  F-A, S-B  14.4 Packing group  Dangers for the environment		13.1.	Waste treatment methods		
14.1 UN number or ID number 14.2 Official UN shipping name ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate)  14.3 Transport hazard class ADR/RID/ADN/IMDG/ICAO-IATA Class 8 ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard ADR: Tunnel restriction code IMDG - EmS: F-A, S-B  14.4 Packing group  14.5 Dangers for the environment			The substance and its packaging m	ust be disposed of as hazardous waste by	
14.1 UN number or ID number 14.2 Official UN shipping name ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate)  14.3 Transport hazard class ADR/RID/ADN/IMDG/ICAO-IATA Class 8 ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard ADR: Tunnel restriction code IMDG - EmS: F-A, S-B  14.4 Packing group I Dangers for the environment			authorized companies.		
14.2 Official UN shipping name ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate)  14.3 Transport hazard class ADR/RID/ADN/IMDG/ICAO-IATA Class 8 ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard ADR: Tunnel restriction code E IMDG - EmS: F-A, S-B  14.4 Packing group I Dangers for the environment	14.		TRANSPORT INFORMATION	)N	
ADR/RID/ADN/IMDG/ICAO-IATA Corrosive, acidic inorganic liquid, n.o.s. (sulphuric acid, dirhodium trisulphate)  14.3 Transport hazard class  ADR/RID/ADN/IMDG/ICAO-IATA Class 8  ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard  ADR: Tunnel restriction code E  IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment		14.1	UN number or ID number	UN3264	
acid, dirhodium trisulphate)  14.3 Transport hazard class  ADR/RID/ADN/IMDG/ICAO-IATA Class 8  ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard  ADR: Tunnel restriction code E  IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment		14.2	Official UN shipping name		
14.3 Transport hazard class  ADR/RID/ADN/IMDG/ICAO-IATA Class 8  ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark environmental hazard  ADR: Tunnel restriction code E  IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment			ADR/RID/ADN/IMDG/ICAO-IATA	Corrosive, acidic inorganic liquid, n.o.s. (sulphuric	
ADR/RID/ADN/IMDG/ICAO-IATA Class 8 ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark environmental hazard ADR: Tunnel restriction code E IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment				acid, dirhodium trisulphate)	
ADR/RID/ADN/IMDG/ICAO-IATA Label 8 + mark enviromental hazard ADR: Tunnel restriction code E IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment		14.3	Transport hazard class		
ADR: Tunnel restriction code E IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment			ADR/RID/ADN/IMDG/ICAO-IATA	Class 8	
IMDG - EmS: F-A, S-B  14.4 Packing group I  14.5 Dangers for the environment			ADR/RID/ADN/IMDG/ICAO-IATA	Label 8 + mark enviromental hazard	
14.4 Packing group   14.5 Dangers for the environment			ADR: Tunnel restriction code	E	
14.5 Dangers for the environment			IMDG - EmS:	F-A, S-B	
		14.4	Packing group	1	
		14.5	Dangers for the environment		
			ADR/RID/ICAO-IATA:	yes	

# According to Regulation n. 1907/2006 and Regulation 878/2020 Rh Sulphate in solution (CoC)



Revision n. 6 – 22.08.2025 Replaces revision n. 5 – 11.09.2024

IMDG: Marine Contaminant: Dangerous for environment

# 14.6 Special precautions for user

Transport must be carried out by vehicles authorized for the transport of dangerous goods according to the provisions of the current edition of the A.D.R. Agreement. and the applicable national provisions. Transport must be carried out in the original packaging and, in any case, in packaging which is made of materials which cannot be attacked by the contents, and which are not likely to generate dangerous reactions. Those responsible for loading and unloading dangerous goods must have received appropriate training on the risks presented by the preparation and on any procedures to be adopted in the event of emergency situations.

# 14.7 Maritime transport in bulk according to IMO

No bulk transport is foreseen

### 15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	Applicability
	Reg. (EC) 1907/2006 / EC Reach	YES
	Reg. (EC) 1272/2008 CLP and subsequent changes and additions	YES
	Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"	NO
	Reg. (EC) 850/2004 "Persistent organic pollutants"	NO
	Reg. (EC) 689/2008 "export and import of dangerous chemicals"	NO
	Substance listed in Annex I of Dir. 2012/18 / EU so-called Seveso	NO
	Legislative Decree 81/2008 Consolidated Law on health and safety at work	YES
	Directive 2014/103 / EU "Adr"	YES
	Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)	NO
	Reg. (CE) 1907/2006/CE Reach - Annex XIV – Authorisation List	NO
	Reg. (CE) 1907/2006/CE Reach - Annex XVII - Restriction List <a href="https://echa.europa.eu/it/substances-restricted-under-reach">https://echa.europa.eu/it/substances-restricted-under-reach</a>	Limited use Item 3 - 75 (check link)
	REGULATION (EU) 2019/1148 "Explosives precursors"	YES

# 15.2 Chemical safety assessment

A chemical safety assessment was not carried out

# 16. OTHER INFORMATION

## Changes compared to the previous edition

Changes to section 2-3-8-12-14-16

# Acronim and abbreviation legend

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

GHS: Globally Harmonized System of Classification and Labeling of Substances

EINECS: European Inventory of Chemical Substances

CAS: Chemical Abstract Service

STA: Acute Toxicity Estimate

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: (very persistent and very bioaccumulative). Very persistent and very

bioaccumulative

# According to Regulation n. 1907/2006 and Regulation 878/2020 Rh Sulphate in solution (CoC)



Revision n. 6 – 22.08.2025

Replaces revision n. 5 - 11.09.2024

LD: lethal dose

PNEC: predicted no effect concentration

DNEL: derived no effect level

TLV (ceiling value): threshold limit value

STEL: short-term exposure limit

EU-OEL: European occupational exposure limit

TWA: time-weighted average EC: effective concentration

NOAEL: no observed adverse effect level

LC: lethal concentration

NOEC: no observed effect concentration LOEC: lowest observed effect concentration

Bw: body weight

Koc: organic carbon-water partition coefficient

# Main references and data sources

ECHA's data bank on registered substances and soon to be registered substances:

https://chem.echa.europa.eu/

# Indication, for mixtures, of which methods of evaluation of the information have been used for the purposes of classification

Classification		Classification procedure
Met. Corr	H290	calculation
Skin corrosive 1 A	H314	According to 3.3.3.1.2 of Annex I to CLP
Eye damage	H318	According to 3.3.3.1.2 of Annex I to CLP
Aq. Acute 1	H400	calculation
Ag. Chronic 1	H410	calculation

# Adequate training for workers in order to ensure the protection of human health and the environment

Chemical Risk Training pursuant to Legislative Decree 81/08 Title IX dangerous substances
PPE training