

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
Rh Sulphate Sol. 100 W/ additive 100 ml = 10 g Rh



Revision n. II – 01.12.2022
Replaces revision n. I – 21.06.2022

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Commercial name Rh Sulfate in solution (CoC)

Product code 1360
Registration number A registration number is not available for this product as it is a mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Recommended uses Industrial use
Uses advised against Check section 15
- 1.3 Details of the supplier of the safety data sheet**
Name FAGGI ENRICO S.P.A.
Address Via Majorana, 101/103 50019 Sesto Fiorentino FI
Telephone number 055311861
Fax number 055311791
Competent person responsible for the safety data sheet lorenzo.magaldi@faggi.it
- 1.4 Emergency telephone number** 111 - Medical helpline operating in England, in Scotland (NHS 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	Hazards indications
Skin corrosive	1 A	H314
Eye Dam.	1	H318
Muta	2	H341
Aq. Acute	1	H400
Aq. Chronic	1	H410

2.2 Label elements

Pictograms



Signal word

DANGER

Hazard statements

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects
H410	Very toxic to aquatic life with long lasting effects.

Precautionary advice

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
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 [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.
P391	Collect spillage.

2.3 Other hazards

It does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII.
 It does NOT contain substances that interfere with the endocrine system in accordance with Regulation (EC) 1907/2006 art.59 paragraph 1 and in accordance with the criteria established in Regulation (EU) 2017/2100 and Regulation (EU) 2018/605.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixure

Product identifier	Concentration %	Classification	
		Hazard classes Category codes	Hazard statements
Dirodium trisulfate	15 ≤ C ≤ 20	Met.Corr 1	H290
CAS 10489-46-0		Skin Corr. 1B	H314
CE: 234-014-5		Eye Dam. 1	H318
INDEX: not available		Muta 2	H341
REACH N °: exempt for quantity		Aq. Acute 1	H400
STA: not applicable		Aq. Chronic 1	H410
M factor (acute): 1			
M factor (chronic): 1			

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Sulfuric acid 7 % ≤ C ≤ 15 % Skin Corr. 1 A H314
CAS 7664-93-9
EC 231-639-5
INDEX 016-020-00-8
Reach No: 01-2119458838-20-XXXX
STA: not applicable
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

4. FIRST AID MEASURES

4.1 Description of first aid measures

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:

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

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.

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5.3 Advice for firefighters

General information

Prevent the water used to extinguish the fire from flowing into the sewer, groundwater or surface 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)

Equipment

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

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. Recommendations in order to manipulate the substance or the mixture in a safe manner, such as containment measures and prevention of fire and aerosol 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

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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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters (related to sulfuric acid)

AGW (inhalable fraction): 0.1 mg / m³ (based on DE TRGS 900)

TWA (fog): 0.05 mg / m³ (based on 2009/161 / EU)

8.2. Exposure controls

8.2.1. Appropriate engineering controls

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) Gloves for chemical risks compliant with EN420 EN374 Standards

Skin protection (body) Complete clothing compliant with the UNI EN 13034: 2006 standard

Respiratory protection Semi-face masks with ABEK2P3 R filters conforming 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
Melting point / freezing point	About -1 ° C
Boiling point or initial boiling point and boiling range	About 105 ° C
Flammability	Not inflammable
Lower and upper explosive limits	Not explosive
Flash point	Not inflammable
Self-ignition temperature	Not inflammable

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Decomposition temperature	The mixture does not decompose
pH	<2
Cinematic viscosity	Data not available
Solubility	Fully miscible in water

Production coefficient n-octanol / water (logarithmic value)	Not applicable
Vapor pressure	2.33 KPa at 20 ° C
Density and / or relative density	1.15 g / cm ³
Relative vapor density	Data not available
Characteristics of the particles	Not applicable

9.2. Other information

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

11. TOXICOLOGICAL INFORMATION

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

Skin corrosion / irritation

Corrosive to the skin and mucous membranes

Serious eye damage/irritation

Strongly corrosive

Respiratory or skin sensitization

Suspected of causing sensitization in case of prolonged exposure: insufficient data

Germ cell mutagenicity

Suspected of having mutagenic effects on germ cells

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	Carcinogenicity	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.	ECOLOGICAL INFORMATION		
12.1	Toxicity	LC 50 (fish) 96 h: 220 mg / L EC50 (Daphnia magna) 48 h: 290 µg / L Rh.	
12.2	Persistence and degradability	Not persistent	
12.3	Bioaccumulative potential	Not bioaccumulative	
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	UN proper shipping name	Corrosive, acidic inorganic liquid, n.o.s. (sulfuric acid)	
14.3	Transport hazard class(es)	8	
14.4	Packing group	THE	
14.5	Environmental hazards	Nobody	
14.6	Special precautions for user	Use approved packaging	
14.7	Maritime transport in bulk according to IMO instruments	Not applicable	
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

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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	Limited use
https://echa.europa.eu/it/substances-restricted-under-reach	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

Regulatory amendment

Acronim and abbreviation legend

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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstract Service

Main references and data sources

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

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

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

Classification	Classification procedure
Skin corrosive 1A H314	calculation
Eye Damage 1 H318	calculation
Muta 2 H341	calculation
Aq. Acute 1 H400	calculation
Aq. 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