

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



Revisione n. IV dd 09.30.2021
 Replaces revision n II dd 06.21.2020

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

1.1 Product identifier

Commercial name Rh Sulphate Sol. 100 C / additive 100 ml = 10 g Rh
 Product code 155
 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

Intended uses Raw material for galvanic bath. Industrial uses.
 Advised against uses None in particular

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 Ph. 0557947819 Poison Control Center of Florence

2. HAZARDS IDENTIFICATION

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

Hazard classes	Category codes	Hazard statements
Skin Corrosive	1 A	H314
Eye dam.	1	H318
Muta	2	H341

2.2 Label elements

Pictograms



Signal words

DANGEROUS

Hazard statements

H314	Causes sever skin burns and eye damage
H341	Suspected of causing genetic defects.
Precautionary statements	
P280	Wear protective gloves / clothing / eye protection / face protection
P301+P330+P331	IF SWALLOWED: rinse mouth. DO NOT induce vomiting.

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P303+P361+P353	IN CASE OF CONTACT WITH SKIN (or hair): immediately take off contaminated clothing. Rinse the skin / take a shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IN CASE OF CONTACT WITH THE EYES: rinse thoroughly for several minutes. Remove any contact lenses if easy to do. Continue rinsing.
P308 + P313	In case of exposure or possible exposure, consult a physician.
P501	Dispose of the product / container in accordance with national regulations

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 Mixture			Classification	
Product identifier	Concentration	%	Hazard classes	Category codes
Rhodium sulfate CAS 10489-46-0 EC: 234-014-5 REACH N °: exempt for quantity	≥ 15 % - < 20 %		Met.Corr 1 Skin Corr. 1B Eye Dam. 1 Muta 2	H290 H314 H318 H341
Sulfuric acid CAS 7664-93-9 EC 231-639-5 REACH N °: 01-2119458838-20-XXXX	≥ 7 % - < 10 %		Skin Corr. 1 A	H314

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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
Skin contact	Take off contaminated clothing immediately. Immediately wash skin with plenty of soap and water. Consult a physician.
Eye contact	Immediately flush eyes with plenty of water while holding the eyelids apart. Do not use eye drops or ointments. Consult an ophthalmologist specialist.

Reccomendation:

- **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 those providing first aid, 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

Non suitable extinguishing media: No one 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

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.

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Equipment 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

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 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 to clean-up a spill

Wash the area with plenty of water.

6.3.2 Any other information

None

6.4 Reference to other sections

None

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Recommendations 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

Store away from bases.

7.2. Conditions for safe storage, including any incompatibilities

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.

7.2.3. Control of weather conditions, ambient pressure, temperature, sunlight, humidity, and vibration

Store in a cool, dry place

7.2.4. Conditions for keeping substances / mixtures intact

The packages must be well closed and labeled.

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7.2.5. Advice regarding the ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities

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

TWA (Italy) Long-term value 0.2 mg / m³ A2, (M), (T)

VL (Italy) Long-term value: 0.05 mg / mm

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ventilation systems. 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 standards

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 systems and ambient air exchange. Convey the aspirated volumes to an abatement system and then into the atmosphere. Do not use air recirculation 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
Colour	Dark brown
Odour	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 explosion limit	Not explosive
Flash point	Not inflammable
Auto-ignition temperature	Not inflammable

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Decomposition temperature	The mixture does not decompose
pH	<2
Kinematic viscosity	Data not available
Solubility	Fully miscible in water
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	2.33 KPa at 20 ° C
Density and/or relative density	1.13 g / cm ³
Relative vapour density	Data not available
Particle characteristics	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, elementary 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 (CE) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met
 Corrosive to the skin and mucous membranes

Skin corrosion/irritation

Strongly corrosive

**Serious eye damage/irritation
 Respiratory or skin sensitization**

Based on available data, the classification criteria are not met
 Suspected of having mutagenic effects

Germ cell mutagenicity

Carcinogenicity

Based on available data, the classification criteria are not met

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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
Aspiration hazard	Corrosive to the respiratory tract

11.2 Information on others hazards

None

12. ECOLOGICAL INFORMATION

As no information is available on the mixture, the following data are provided for the sulfuric acid substance

12.1 Toxicity	LC 50 crustaceans: 42.5 mg / l
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	No one 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	ONU: 3266
14.2 ONU proper shipping name	Corrosive, acidic inorganic liquid, n.o.s. (sulfuric acid)
14.3 Transport hazard class(es)	8
14.4 Packing group	i
14.5 Environmental hazards	None
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
<i>Reg. (CE) 1907/2006/CE Reach</i>	YES
<i>Reg. (CE) 1272/2008 CLP and subsequent amendements</i>	YES
<i>Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"</i>	NO

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Reg. (CE) 850/2004 "Persistent organic pollutants"	NO
Reg. (CE) 689/2008 "Export and import of hazardous chemicals"	NO
Substance listed in Annex I of Dir. 2012/18/UE cd Seveso	NO
Directive 81/2008 Consolidated Act on protection of health and work safety	YES
Directive 2014/103/UE "Adr"	YES

15.2

Chemical safety assessment

A chemical safety assessment was not carried out

16. OTHER INFORMATION

Changes compared to the previous edition

Regulatory update. Amendment to section 14

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>

Reporting, for mixtures, which methods of evaluating the information were used for the purposes of classification.

Classification	Classification procedure
Skin corrosive 1A	H314 Calculation method
Eye Damage 1	H318 Calculation method
Muta 2	H341 Calculation method

Adequate training for workers to guarantee the protection of human health and the environment

Training on the chemical risk ex Directive 81/08 Title IX dangerous substances

Training on DPI