

Revisione n. IV del 30.09.2021 Sostituisce la revisione n III del 21.06.2020

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

1.1	Product identifier	
	Commercial name Rh S	ulphate Sol. 100 C / additive 100 ml = 10 g Rh
	Product code 155	
	Registration number A rea mixt	gistration number is not available for this product as it is a ure
1.2	Relevant identified uses of the	e substance or mixture and uses advised against
	Intended uses Raw i	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.
	Adress	Via Majorana, 101/103 50019 Sesto Fiorentino Fl
	Telephone number	055311861
	Fax number	055311791
	Competent person	
	responsible for the safety data	lorenzo.magaldi@faggi.it
	sheet	
1.4	Emergency telephone	Ph. 0557947819 Poison Control Center of Florence
	number	

### 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
Label elements		

2.2 Label elements Pictograms



Signal words Hazard statements	DANGEROUS	
	H314	Causes sever skin burns and eye damage
	H341	Suspected of causing genetic defects.
Precautionary statements	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection



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	P301+P330+P331 P303+P361+P353	IF SWALLOWED: rinse mouth. DO NOT induce vomiting. 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.emove victim to fresh air and keep at rest in a position 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.
	P501	Dispose of contents/container in accordance to national regulations
de	It door NOT contain DBT / vDv	cubstances according to

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



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> EC 231-639-5 REACH N °: 01-2119458838-20-XXXX

#### 4. FIRST AID MEASURES

4.1	Description of first aid measures				
	Inhalation Keep the injured person at rest in an airy and war		m environment. In case		
		•	y arrest, use artificial respiration met		
	Ingestion	Do not induc	ce vomiting. Drink plenty of water and	d consult a doctor	
	Skin contact		taminated clothing immediately. Imm ap and water. Consult a physician.	ediately wash skin with	
	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.			
	Reccomendatio	on:			
	• Need to se	e a doctor im	mediately	YES	
	• Possibility	of delayed ef	fects following exposure	YES	
		•	idual from the place of exposure to	YES	
	the open a				
	Remove the clothing and shoes of the exposed individual			YES	
	How to har	ndle contamir	nated clothing	With gloves	
	•	-	aid, wear PPE	YES	
4.2	•		nd effects, both acute and delayed		
Eye, nose and throat irritation, chest pain, choking, skin i			· · · ·		
	(after severe exposure), nausea, vomiting: Abundant and bleeding mucous secre bronchitis, pulmonary edema, corneal necrosis, tissue necrosis, perforation o gastrointestinal tract.			-	
				is, perforation of the	
4.3	•	ion of any immediate medical attention and special treatment needed			
4.5		•	tely. Emergency showers and eye wa		
	available in the				
FIREFIGHTING					
5.1	Extinguishing n	nedia			
	Suitable exting	uishing	Water spray, carbon dioxide, foam		
	media:				
	Non suitable ex	xtinguishing	No one in particular		
	media:				
5.2	•	-	the substance or mixture elop sulfur oxides, toxic for inhalation		
5.3	Advice for firef	ighters			

5.



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6.

7.

	General	Prevent the water used to extinguish the fire from flowing into the sewer, groundwater or		
	information	tion surface water. Cool containers at risk with water.		
	Equipment		fire-fighting clothing, such as self-contained open-circuit compressed air breathing	
			us (EN137), flame retardant suit (EN469), flame retardant gloves (EN659) and	
		-	er boots (HOA29 or A30)	
•	ACCIDENTAL I			
	6.1		I 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	Environ	mental precautions	
	-		infiltration into the sewer, groundwater and surface water	
	6.3		s 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	Referen	ce to other sections	
			None	
•	HANDLING AN			
7.1. Precautions for safe handling				
		7.1.1.	Raccomentations 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	
		<b>•</b> ••••	Store away from bases.	
	7.2.		ons 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	
		7 7 7	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	



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### **7.2.4.** Conditions for keeping substances / mixtures intact The packages must be well closed and labeled.

- 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
<b>Respiratory protection</b>	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	About 105 ° C
and boiling range	
Flammability	Not inflammable
Lower and upper explosion limit	Not explosive



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> Flash point Auto-ignition temperature Decomposition temperature

pH Kinematic viscosity Solubility Partition coefficient n-octanol/water (log value) Vapour pressure Density and/or relative density Relative vapour density Particle characteristics Not inflammable Not inflammable The mixture does not decompose

<2 Data not available Fully miscible in water Not applicable

2.33 KPa at 20 ° C 1.13 g / cm3 Data not available 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 prodoucts

Sulfur oxides

### **11. TOXICOLOGICAL INFORMATION**

IONICOL				
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		
	Skin corrosion/irritation	Corrosive to the skin and mucous membranes		
	Serious eye damage/irritation	Strongly corrosive		
	Respiratory or skin sensitization	Based on available data, the classification criteria are not met		

Germ cell mutagenicity

Suspected of having mutagenic

effects



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Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the
(STOT) single exposure	classification criteria are not met Based on available data, the
(STOT) repeated exposure	classification criteria are not met 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 Mobility in soil 12.4 Undefined **Results of PBT and vPvB assessment** Not classified 12.5 12.6 **Endocrine disrupting properties** None known 12.7 Other adverse effects No one in particular
- 13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

13.1. Waste treatment methods

The substance and its packaging must be disposed of as hazardous waste by authorized companies.

	14.1	UN number or ID number	ONU: 3264		
	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	Not applicable		
		IMO instruments			
15.	REGULATORY				
	15.1	Safety, health and environmental regulations/legislation specific			
		for the substance or mixture			
		Reg. (CE) 1907/2006/CE Reach		YES	
	Reg. (CE) 1272/2008 CLP and subsequent amendements			YES	



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	Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"				NO		
	Reg. (CE) 850/2004 "Persistent organic pollutants"				NO		
		Reg. (CE) 689/2008 "Export and import of hazardous chemicals"					
		Substance listed in Annex I of Dir. 2012/18/UE cd Seveso			NO		
		Directive 81/2008 Consolidated Act on protection of health and			YES		
		work safety					
		Directive 2014/103/UE "Adr"			YES		
	15.2	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 Carria					
		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	Classification procedure		
		Skin corrosive 1A	1314	Calculation metho	bd		
		Eye Damage 1 H	1318	Calculation metho	bd		
		Muta 2 H	1341	Calculation metho	bd		
		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**