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



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1.3

Replaces revision n. I – 21.06.2022

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 adviced against Check section 15

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

data sheet lorenzo.magaldi@faggi.it

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	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 Hazard statements	DANGER	
	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

Safety data sheet According to Regulation n. 1907/2006 and Regulation 878/2020 Rh Sulfate in solution (CoC)



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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 XIIIIt 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	Hazard
		Category	statements
		codes	
Dirodium trisulfate	20 % ≤ C ≤ 25 %	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			
Sulfuric acid	7 % ≤ C ≤ 15 %	Skin Corr. 1 A	H314
CAS 7664-93-9			

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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 $5\% \le C < 15\%$ Eye Irrit. 2: H319 $5\% \le C < 15\%$ 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
 Possibility of delayed effects following exposure

YES

• Move the exposed individual from the place of exposure to the open

air
 Remove the clothing and shoes of the exposed individual

YES

How to handle contaminated clothing
 With gloves

• For first aiders, wear PPE

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

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



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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. 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

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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

Color

Dark brown

Odor

Pungent

Melting point / freezing point

About -1 ° C

Boiling point or initial boiling point and

About 105 ° C

boiling range

Flammability

Not inflammable

Lower and upper explosive limits

Not explosive

Flash point

Not inflammable

Self-ignition temperature

Not inflammable

Decomposition temperature The mixture does not decompose

pH <2

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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 / cm3

Relative vapor density

Characteristics of the particles

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, 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 / irritationCorrosive 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

Carcinogenicity Based on available data, the

classification criteria are not met

Reproductive toxicityBased on available data, the

classification criteria are not met

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		STOT – single exposure STOT – repeated exposure	Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met
	11.2	Information on other hazards	classification criteria are not met
		None	
12.		ECOLOGICAL INFORMATION	
	12.1	Toxicity	LC 50 (fish) 96 h: 220 mg / L
			EC50 (Daphnia magna) 48 h: 290 μ g / 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

Applicability
YES
YES
NO
NO
NO
NO
YES
YES
NO
NO

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Reg. (CE) 1907/2006/CE Reach - Annex XVII - Restriction List Limited use Item 3 - 75 https://echa.europa.eu/it/substances-restricted-under-reach (check link) YES

REGULATION (EU) 2019/1148 "Explosives precursors"

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 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