



**EDE SULFURIC ACID 37% ELECTROLYTE BATTERIES**  
Code: 093124/016



Version: 2

Revision: 11/22/2022

Revision preceding: 06/10/2019

Date of impression: 11/22/2022

**SECTION 1: ID OF THE SUBSTANCE EITHER THE MIX AND OF THE SOCIETY EITHER THE COMPANY**

1.1	<p><b>IDENTIFIER :</b> EDE SULFURIC ACID 37% ELECTROLYTE BATTERIES Code: 093124/016 (CAS: 7664-93-9 EC: 231-639-5) UFI: M1TJ-HC7R- YN84-7RV3</p> <p><b>REGISTRATION :</b> <u>name :</u> Sulfuric acid <u>number :</u> 01-2119458838- 20</p>
1.2	<p><b>RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST :</b> <u>Intended uses (main technical functions):</u> <input checked="" type="checkbox"/> Industrial <input checked="" type="checkbox"/> Professional <input type="checkbox"/> Consumption Acid for batteries. <u>Sectors of use (use as is or as a component of mixtures):</u> Industries manufacturing (SU3), Arts graphics and reproduction of supports engravings (SU7), Manufacture of computer equipment, electronic and optical material and electrical equipment (SU16), Professional uses (SU22), <u>Use in manufacturing, formulation or application processes ( relevant uses):</u> Use in batteries and accumulators electrical, Professional <u>relevant product categories ):</u> No applicable. <u>Types of PCN use:</u> Electrolytes for batteries. <u>relevant article categories ):</u> Batteries and accumulators electrical (AC3). <u>uses :</u> This product No this recommended for none use either sector of use industrial, professional either of consumption distinct to the previously included as "Intended or identified uses". <u>Restrictions on manufacturing, marketing and use, Annex XVII Regulation (EC) No. 1907/2006:</u> No restricted.</p>
1.3	<p><b>DATA OF THE SUPPLIER OF THE SAFETY DATA SHEET :</b> EDE TEQUIMA, SL Pol. India Dog Clappers, Av. Major, 30 ship TO - 08181 Sentmenat (Barcelona) SPAIN Telephone: 937150662 - Fax: 901707986 - www.tequima.es <u>- Electronic address of the person responsible for the safety data sheet :</u> tecnicoservicio@tequima.es</p>
1.4	<p><b>PHONE :</b> 937150662 (9:00-13:00 /15:00-18:00 h.) (schedule labor) Service of Information Toxicological (Institute National of Toxicology and Sciences Forensics): Phone (+34) 915620420 Information in Spanish (24h/365d). Only with the purpose of provide answer sanitary in case of urgency. <u>Poison control centers SPAIN:</u> - MADRID: Institute National of Toxicology - Service of MADRID: Institute National of Toxicology - Phone: +34 915620420</p>

**SECTION 2: ID OF THE DANGERS**

2.1	<p><b>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE :</b> <u>Classification according to Regulation (EU) No. 1272/2008~2021/849 (CLP):</u> DANGER:Skin Run. 1A:H314 Eye Dam. 1:H318</p> <table border="1"> <thead> <tr> <th>Hazard class</th> <th>Substance classification</th> <th>Cat.</th> <th>Exposure routes</th> <th>Organs affected</th> <th>Effects</th> </tr> </thead> <tbody> <tr> <td>Physicochemical : Not classified</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>health : </td> <td>Skin Run. 1A:H314 Eye Dam. 1:H318</td> <td>Cat.1A Cat.1</td> <td>Cutaneous Ocular</td> <td>Skin Eyes</td> <td>Burns Injuries serious</td> </tr> <tr> <td>Half environment: Not classified</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Hazard class	Substance classification	Cat.	Exposure routes	Organs affected	Effects	Physicochemical : Not classified						health :	Skin Run. 1A:H314 Eye Dam. 1:H318	Cat.1A Cat.1	Cutaneous Ocular	Skin Eyes	Burns Injuries serious	Half environment: Not classified					
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2.2	<p>He text complete of the indications of danger mentioned HE indicates in the section 16. <b>LABEL ELEMENTS :</b>  He product this labelled with the word of warning DANGER according to he Regulation (EU) No. 1272/2008~2021/849 (CLP)</p> <p><u>-statements :</u> H314 Causes Burns serious in the fur and injuries eyepieces serious. <u>-advice :</u> P102-P405 Maintain out of the scope of the children. Keep low key. P280 Wear protective gloves, clothing and glasses.</p>
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P301+P330+P331 EN CASE OF INGESTION: Rinse the mouth. NO to provoke he threw up.  
 P303+P361+P353 EN CASE OF CONTACT WITH THE FUR (either he hair): Remove immediately all the clothes contaminated. Rinse skin with water [or shower].  
 P305+P351+P338 EN CASE OF CONTACT WITH THE EYES: Rinse with water carefully during several minutes. Remove contact lenses when present and can be done easily. Continue with washing.  
 P501 Delete he content/the bowl through delivery in a spot of collection separated of waste dangerous vehicles authorized in your municipality.

-information :

In case of accident Consult to the Service Doctor of Information Toxicological. Phone 91 562 04 twenty.

-Substances that contribute to classification:

SULFURIC ACID 37% E.C. No. 231-639- 5

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OTHER HAZARDS:

Dangers that No HE have in account for the classification, but that they can contribute to the dangerousness general of the substance:

-Other physicochemical hazards:

No HE they know others effects adverse relevant.

-Other risks and negative effects on human health :

No HE they know others effects adverse relevant.

-Other negative effects on the environment :

No meets the criteria PBT/vPvB.

disrupting properties :

This product No contains substances with properties of disturbance endocrine identified either low assessment.

**SECTION 3 : COMPOSITION/INFORMATION ABOUT THE COMPONENTS**

3.1

SUBSTANCES:

This product is a substance in dissolution watery

description :SULFURIC ACID  
H2SO4COMPONENTS:

30 &lt; c &lt; 40 %



SULFURIC ACID

CAS: 7664-93-9, EC: 231-639-5, REACH: 01-2119458838- 20

CLP: Danger: Skin Run. 1A:H314 (Note B)

REACH /  
CLP00Skin Run. 1A, H314:  
C ≥15 %  
Skin Irritative 2, H315:  
5 % ≤ c < fifteen %Eye  
Irritative 2, H319:  
5 % ≤ c < fifteen %Impurities:

No contains others components either impurities that can influence in the classification of the product.

Stabilizers:

None.

Reference to other sections:

For elderly information about components dangerous, see epigraphs 8, eleven, 12 and 16.

SUBSTANCES OF HIGHLY CONCERN (SVHC):

List updated by the ECHA he 06/10/2022.

SVHC substances subject to authorization, included in Annex XIV of Regulation (EC) No. 1907/2006:

None.

SVHC substances candidate to be included in Annex XIV of Regulation (EC) No. 1907/2006:

None.

Persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) substances:

No meets the criteria PBT/vPvB.

3.2

MIXTURES:

No applicable (substance).



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**SECTION 4 : FIRST AID**

4.1	<b>DESCRIPTION OF FIRST AID:</b>	
	The symptoms they can introduce oneself with posteriority to the exposure, by it that, in case of exposure direct to the product, in the cases of doubt, either when persist the symptoms of discomfort, request attention medical.No manage never nothing by via oral to people that HE find unconscious. The lifeguards should lend attention to his own protection and wear the individual protections recommended in case of that exist a possibility of exposure.Use gloves protectors when HE administer first aid.	
	Via of exposure	Description of the first aid
	Inhalation:	<p>Symptoms and effects, treble and retarded</p> <p>The inhalation produces sensation of burning, cough, headache, shortness of breath, nausea and sore throat. Inhalation produces cyanosis (lips, nails and fur bluish) due to training of methemoglobin in the blood, with cough, vertigo, pain of head, difficulty respiratory and loss of knowledge. Inhalation may cause pulmonary edema. The symptoms of the edema pulmonary No They often become evident after a few hours and are aggravated by physical exertion.</p> <p>Take out to the affected of the zone contaminated and Remove to fresh air. If breathing is irregular or stops, perform artificial respiration. If unconscious, place in appropriate recovery position. Keep covered with warm clothing while seeking medical attention.</p>
	Cutaneous:	<p>He contact with the fur produces redness, burns and pain.</p> <p>Remove immediately the clothes contaminated. Wash thoroughly the zones affected with abundant water cold or tempered and a solution of baking soda sodium to the 5%. Finally, wash the area again with soap and water. Provide medical care.</p>
	Ocular:	<p>He contact with the eyes cause redness, pain and severe deep burns.</p> <p>Remove the glasses of contact.Wash by irrigation the eyes with abundant water clean and fresh during to the less 15 minutes, pulling toward above of the eyelids, until Let the irritation subside. If the irritation persists, consult a doctor.</p>
	Ingestion:	<p>If swallowed, causes severe irritation or burns chemicals in the mouth, throat, esophagus and stomach.</p> <p>If ingested, seek medical advice immediately. and show him the label either he container.Drink water in big quantities.No to provoke he threw up, due to the risk of perforation.Keep the affected person at rest.</p>

4.2 **MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:**  
The main symptoms and effects HE indicate in the sections 4.1 and 11.1

4.3 **INDICATION OF ALL ATTENTION MEDICAL AND OF THE TREATMENTS SPECIALS THAT MUST DISPENSE IMMEDIATELY:**  
The information of the composition updated of the product ha been sent to the Service of Information Toxicological (Institute National of Toxicology and Sciences Forensics). In case of accident call to the INTCF, Phone: (+34) 915620420 (24h/365d).  
**Information for the doctor:**  
In case of exposure with this product is necessary a treatment specific, they must be available the media suitable together with instructions. The damage caused by detergents and surfactants to the intestinal mucosa is irreversible. Do not cause vomiting, but rather perform stomach lavage after adding dimethicone (antifoam).  
**Antidotes and contraindications:**  
No available.

**SECTION 5 : MEASURES OF STRUGGLE AGAINST FIRES**

5.1	<b>MEANS :RD.513/2017:</b> No wear never water. In case of fire, use ..... [the media of extinction the has to specify he maker]. (Yeah he water increases he risk HE has to add: 'No wear never water').
5.2	<b>SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:</b> As consequence of the combustion either of the decomposition thermal, they can form products dangerous: oxides of sulfur.
5.3	<b>RECOMMENDATIONS FOR FIRE FIGHTING PERSONNEL :</b> <b>protective equipment :</b> According to the magnitude of the fire, can be necessary he use of suits of protection against he heat, equipment respiratory autonomous, gloves, glasses protective either masks facials and boots. Yes he equipment of protection fire protection No this available either No HE use, to turn off he fire from a place protected either to a distance safe. rule EN469 provides a level essential of protection in case of chemical incident . <b>Other recommendations:</b> Avoid that the products used in the struggle against fire, pass to drains, sewers either courses of water.



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## SECTION 6 : MEASURES IN CASE OF SPILL ACCIDENTAL

6.1	<b>PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:</b> Avoid he contact straight with he product.
6.2	<b>ENVIRONMENTAL PRECAUTIONS :</b> Avoid the pollution of drains, waters superficial either underground, So as of the ground. In case of occur big waste either if he product pollutes lakes, rivers either sewers, inform to the authorities competent, according to the legislation local.
6.3	<b>METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING:</b> No throw never water to this product. Collect he spill with materials absorbents No fuels (land, sand, vermiculite, land of diatoms, etc..). No use sawdust or others materials fuels. Transfer to a bowl appropriate for his recovery or elimination. Neutralize with carbonate either baking soda of sodium. Keep the remains in a container closed.
6.4	<b>REFERENCE TO OTHER SECTIONS:</b> For information of contact in case of emergency, see epigraph 1. For information on safe handling, see section 7. For exposure control and individual protection measures, see section 8. For the elimination of the waste, continue the recommendations of the epigraph 13.

## SECTION 7 : HANDLING AND STORAGE

7.1	<b>PRECAUTIONS FOR SAFE HANDLING :</b> Achieve with the legislation current about prevention of risks labor. - <b>recommendations :</b> Manipulate avoiding projections. Avoid all guy of leak either leak. No leave the containers open. - <b>Recommendations to prevent fire and explosion risks:</b> He product No is susceptible of become inflamed, deflagrate either explode, and No holds the reaction of combustion by he input of oxygen from of the air atmosphere in that HE finds, by it that No this including in he ambit of application of the directive 2014/34/EU (RD.144/2016), relating to devices and protection systems for use in potentially explosive atmospheres. Nor is the provisions applicable . willing in the ITC WED BT-29 relative to the prescriptions individuals for the facilities electrical of the local with risk of fire or explosion. - <b>Recommendations to prevent toxicological risks:</b> No eat, to drink neither smoke during the manipulation. After of the handling, wash the hands with water and soap. For control exposure and individual protection measures, see section 8. - <b>Recommendations to prevent environmental pollution :</b> No HE considers a danger for he half atmosphere. In case of spill accidental, continue the instructions of the epigraph 6.
7.2	<b>CONDITIONS FOR SECURE STORAGE, INCLUDING POTENTIAL INCOMPATIBILITIES:</b> Ban the entrance to people No authorized. Keep out of the scope of the children. For avoid spills, the packaging, a once opened, HE they must return to close carefully and to place in position vertical. The pipelines they must be properly heated and coated for prevent he cooling and solidification in the lines. Due to his nature corrosive, has to lend extreme caution in the selection of materials for bombs, packaging and lines. He floor has to be raincoat and resistant to the corrosion, with a system of channels that allow the collection of the liquid toward a pit of neutralization. He equipment electric has to be made with materials not corrodible. For more information, see section 10. - <b>class :</b> Class 1A. According to ITC MIE APQ-6 (storage of corrosive liquids in fixed containers) and ITC MIE APQ-10 (storage in mobile containers), RD.656/2017. - <b>Maximum stock time :</b> 12 Months - <b>range :</b> min:5 °C, max:40 °C (recommended). - <b>materials :</b> Keep yourself far of water, agents reducers, agents oxidants, alkali, subjects fuels. - <b>type :</b> According to the provisions current. Packaging of steel stainless. - <b>Limit quantity (Seveso III): Directive 2012/18/EU (RD.840/2015):</b> No applicable (No HE they comply the criteria of classification).
7.3	<b>SPECIFIC END USES :</b> No HE has of recommendations individuals for he use of this product different of the already indicated.



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SECTION 8 : CONTROLS OF EXPOSURE/PROTECTION INDIVIDUAL

8.1

PARAMETERS :

Yeah a product contains ingredients with boundaries of exposure, can be necessary the supervision staff, of the atmosphere of job or biological, for determine the effectiveness of the ventilation either of others measures of control I the need of wear equipment protective respiratory. They must be used as reference rules of monitoring as EN689, EN14042 and EN482 relative to the methods to evaluate the exposure by inhalation to agents chemicals, and the exposure to agents chemicals and biological. They must be used in addition as reference the documents of orientation national relative to methods of determination of substances dangerous.

- PROFESSIONAL EXPOSURE LIMIT VALUES (VLA)

INSST 2021 (RD.39/1997)	Yea	VLA- ED ppm	mg/m3	VLA- EC ppm	mg/m3	Observations
r (Spain, 2021)		-	0.05	-	-	Fraction thoracic
SULFURIC ACID	2014					

VLA - Worth Limit Environmental, ED - Exposure daily, E.C. - Exposure of Short duration.

- BIOLOGICAL LIMIT VALUES (VLB):

No established

- DERIVATIVE NON-EFFECT LEVEL (DNEL):

He level without effect derivative (DNEL) is a level of exposure that HE esteem sure, derivative of data of toxicity according to specific guidelines that collect he REACH. He worth DNEL can to differ of a limit of exposure occupational (OR THE) correspondent to the same chemical product. OEL values They may be recommended by a specific company, a government regulatory agency, or a organization of experts. Yeah good HE consider in addition protectors of the health, the values OR THE HE derive through a process different from REACH.

- LEVEL WITHOUT EFFECT DERIVATIVE, WORKERS:- Effects systemic, treble and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/kg bw/d	DNEL Pray I mg/kg bw/d
SULFURIC ACID	Mr (a) s/r (c)	Mr (a) s/r (c)	- (a) - (c)
- LEVEL WITHOUT EFFECT DERIVATIVE, WORKERS:- Effects local, treble and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/cm2	DNEL Eyes mg/cm2
SULFURIC ACID	0.1 (a) 0.05 (c)	Mr (a) s/r (c)	- (a) - (c)
- LEVEL WITHOUT EFFECT DERIVATIVE, POPULATION IN GENERAL:- Effects systemic, treble and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/kg bw/d	DNEL Eyes mg/kg bw/d
SULFURIC ACID	Mr (a) s/r (c)	Mr (a) s/r (c)	Mr (a) s/r (c)
- EFFECTS LOCAL, TREBLES AND CHRONICLES:- Effects local, treble and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/cm2	DNEL Eyes mg/cm2
SULFURIC ACID	- (a) - (c)	Mr (a) s/r (c)	- (a) - (c)

(to) - Acute, short-term exposure, (c) - Chronic, prolonged or repeated exposure.


(-) - DNEL No available (without data of record REACH).



s/r - DNEL not derived (no risk identified).

- EXPECTED NO EFFECT CONCENTRATION (PNEC):







- EXPECTED CONCENTRATION WITHOUT EFFECT, AQUATIC ORGANISMS:- Fresh water, atmosphere Marine and waste flashing:	PNEC Water sweet mg/l	PNEC Marine mg/l	PNEC Intermittent mg/l
sulfuric acid	0.0025	0.00025	-
- TREATMENT PLANTS OF WATERS RESIDUAL (STP) AND SEDIMENTS IN WATER SWEET AND WATER MARINE:	PNEC STP mg/l	PNEC Sediments mg/kg dw/d	PNEC Sediments mg/kg dw/d
sulfuric acid	8.8	0.002	0.002
- EXPECTED CONCENTRATION WITHOUT EFFECT, TERRESTRIAL ORGANISMS:- Air, soil and effects for predators and humans:	PNEC Air mg/m3	PNEC Floor mg/kg dw/d	PNEC Pray I mg/kg dw/d
sulfuric acid	-	-	-

REACH registration data ).

8.2	<p><b>EXPOSURE CONTROLS :</b> <b>ORDER MEASURES :</b></p>  <p>Provide adequate ventilation. To do this, good local ventilation must be provided. and HE has to provide of a good system of extraction general. Yes are measures are not sufficient to maintain the concentration of particles and vapors below the exposure limits during work, appropriate respiratory equipment must be used .</p> <p><u>-Protection of the respiratory system:</u> Avoid the inhalation of the product.</p> <p><u>-Eye and face protection:</u> Provide of faucets, sources either jars eyewash that contain water clean in the proximities of the zone of utilization.</p> <p><u>-Hand and skin protection:</u> HE recommends install showers of emergency in the proximities of the zone of utilization.</p>
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<p><b>OCCUPATIONAL EXPOSURE CONTROLS: REGULATION (EU) N° 2016/425:</b></p> <p>As extent of prevention general of security and hygiene in he atmosphere of job, HE recommends the utilization of equipment of protection individual (PPE) basics, with he correspondent marked EC. For further information about the equipment of protection individual (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN standard, etc.), the information brochures provided by the PPE manufacturers must be consulted.</p>	
<p>Face mask:</p> 	<p>Mask with type E filters (yellow) for acid gases and vapors (EN14387). To obtain a level of protection appropriate, the class of filter HE has to choose in function of the guy and concentration of the contaminating agents present, in accordance with the filter manufacturer's specifications.</p>
<p>Glasses:</p> 	<p>Glasses of security with protections sides for products chemicals (EN166).Clean to diary and disinfect periodically according to the manufacturer's instructions.</p>
<p>shield :</p>	<p>Face shield against liquid splashes (EN166), recommended when there is a risk of spill, projection or nebulization of the liquid.</p>
<p>Gloves:</p> 	<p>Neoprene rubber gloves (EN374). When there may be frequent or prolonged contact , recommends using gloves with protection level 5 or higher, with a penetration time &gt;240 min. When only brief contact is expected, it is recommended to use gloves with protection level 2 or higher, with a penetration time &gt;30 min .The penetration time of the selected gloves must be in accordance with the intended period of use.There are various factors (e.g. temperature), which in practice make the use time of chemical resistant protective gloves is clearly lower than that established in the EN374 standard.Due to the great variety of circumstances and odds, HE has to have in account he glove manufacturers instruction manual.If used in solution or mixed with other substances, or under conditions other than EN374, contact the supplier of approved gloves.Use correct glove removal technique (without touching the outer surface of the glove) to avoid contact of this product with the skin. Gloves should be replaced immediately if signs of degradation are observed.</p>
<p>Boots:</p> 	<p>Neoprene rubber boots (EN347).</p>
<p>Apron:</p> 	<p>Advisable.</p>
<p>Clothes:</p> 	<p>Clothing resistant to corrosive products should be worn .</p>

<p><u>- Thermal hazards:</u> No applicable (he product HE manipulate to temperature atmosphere).</p> <p><b>EXPOSURE CONTROLS :</b> Avoid any spill to the half atmosphere.</p> <p><u>- Discharged to the ground:</u> Avoid the pollution of the floor.</p> <p><u>- Discharged into water:</u> Due to his acidity, is dangerous for the organisms aquatic. No HE has to allow that he product happens to drains, sewers neither to water courses.</p> <p><u>- Water management law :</u> This product No contains none substance included in the list of substances priority in he ambit of the policy of waters, according to Directive 2000/60/EC~2013/39/EU.</p> <p><u>- Emissions to the atmosphere:</u> No applicable.</p>	
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## SECTION 9 : PROPERTIES PHYSICS AND CHEMISTRY

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:Aspect

State physical: Liquid Transparent

Color: Colorless

Odor: Characteristic

Threshold olfactory: No available

Status change

Spot of fusion: 10.40 °C

Spot initial of boiling: 330 °C to 760 mmHg

- Flammability :

Spot of inflammation Non-flammable

Boundaries lower upper of Flammability/Explosivity: No available

Temperature of auto- inflammation: No applicable (fireproof).

Stability

Temperature decomposition: 340.00 °C

pH value

pH: 0.5 to 20°C

- Viscosity :

Goo dynamics: 25.40 cps to 20°C

Goo kinematics: 7.00 mm<sup>2</sup>/s to 40°C- Solubility (ies):

Solubility in Miscible water

Liposolubility: No applicable (product inorganic).

Coefficient of distribution: n- octanol/water: -2.20 (as log Pow)

- Volatility :

Rate of Evaporation: No available (lack of data).

Density

Density relative: 1.202 to 20/4°C

Relative water

Density of steam Relative: No available.

Particle characteristics

Size of the particles: No applicable.

- Explosive properties :

In the molecule No there is groups chemicals associates with properties explosives.

- Oxidizing properties :

No classified as product oxidizer.

9.2 OTHER INFORMATION:physical hazard classes

No there is information additional available.

Other security features:

Weight Molecular (numeric): 98.08 g/mol

Strain surface: 55.1 din/cm to 20°C

The values indicated No always match with the Specifications of the product. The data corresponding to the Specifications of the product they can consult in the file technique of the same. For further data about properties physicochemical related with safety and environment, see sections 7 and 12.



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## SECTION 10 : STABILITY AND REACTIVITY

10.1	<p><b>REACTIVITY:</b></p> <p>- <b>Corrosivity to metals:</b> No available.</p> <p>- <b>Pyrophoric properties :</b> No is pyrophoric.</p>
10.2	<p><b>STABILITY :</b> Stable low the conditions recommended of storage and handling.</p>
10.3	<p><b>POSSIBILITY OF HAZARDOUS REACTIONS:</b> Possible reaction dangerous with water, agents reducers, agents oxidants, alkali, subjects fuels. Reaction to with combustible materials with risk of fire and burst. In contact with metals produces gas hydrogen, gas extremely flammable which way mixes explosive with he air. No pour never water about this substance; when HE owe dissolve either dilute, add it slowly to the water.</p>
10.4	<p><b>CONDITIONS TO AVOID:</b></p> <p>- <b>Heat :</b> Keep away of the heat. During a heating intense HE produce fumes toxic.</p> <p>- <b>Light :</b> No applicable.</p> <p>- <b>Air :</b> He product No HE go affected by exposure to the air, but HE recommends No leave the containers open.</p> <p>- <b>Humidity :</b> Avoid the humidity. Is hygroscopic.</p> <p>- <b>Pressure :</b> No relevant.</p> <p>- <b>Clashes :</b> He product No is sensitive to the crashes, but as recommendation of guy general HE they must avoid hits and handling abrupt, for avoid dents and breaks of packaging and packaging, in special when HE manipulate he product in big quantities and during loading and unloading operations.</p>
10.5	<p><b>MATERIALS :</b> Keep yourself far of water, agents reducers, agents oxidants, alkali, subjects fuels.</p>
10.6	<p><b>DECOMPOSITION PRODUCTS :</b> As consequence of the decomposition thermal, they can form products dangerous: oxides of sulfur.</p>

## SECTION eleven : INFORMATION TOXICOLOGICAL

11.1	<p><b>INFORMATION ON THE HAZARD CLASSES DEFINED IN REGULATION (EC) No. 1272/2008:</b></p> <p><b>ACUTE TOXICITY :</b></p> <table border="1"> <thead> <tr> <th>Dosis y concentraciones letales de componentes individuales:</th> <th>DL50 (OECD401) mg/kg bw Oral</th> <th>DL50 (OECD402) mg/kg bw Cutánea</th> <th>CL50 (OECD403) mg/m3-4h Inhalación</th> </tr> </thead> <tbody> <tr> <td>Acido sulfúrico</td> <td>2140 Rata</td> <td>-</td> <td>&gt; 375 Rata</td> </tr> <tr> <th>Estimaciones de la toxicidad aguda (ATE) de componentes individuales:</th> <th>ATE mg/kg bw Oral</th> <th>ATE mg/kg bw Cutánea</th> <th>ATE mg/m3-4h Inhalación</th> </tr> <tr> <td>Acido sulfúrico</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>(*) - Estimate punctual of the toxicity acute correspondent to the category of classification (see GHS/CLP Board 3.1.2). These values serve for calculate the ATE with purposes of classification of a mix to leave of their components and No represent results of essays. (-) - HE they ignore the components that HE supposes No present toxicity acute in he threshold superior of the category 4 for the via corresponding exposure.</p> <p>- <b>observed adverse effect</b> No available</p> <p>- <b>Lowest level with observed adverse effect</b> No available</p> <p><b>INFORMATION ON POSSIBLE ROUTES OF EXPOSURE: ACUTE TOXICITY:</b></p> <table border="1"> <thead> <tr> <th>Vías de exposición</th> <th>Toxicidad aguda</th> <th>Cat.</th> <th>Principales efectos, agudos y/o retardados</th> <th>Criterio</th> </tr> </thead> <tbody> <tr> <td>Inhalación: No clasificado</td> <td>ATE &gt; 5000 mg/m3</td> <td>No disponible.</td> <td>No está clasificado como un producto con toxicidad aguda por inhalación (a la vista de los datos disponibles, no se cumplen los criterios de clasificación).</td> <td>GHS/CLP 3.1.2. OECD 403</td> </tr> <tr> <td>Cutánea: No clasificado</td> <td>ATE &gt; 2000 mg/kg bw</td> <td>No disponible.</td> <td>No está clasificado como un producto con toxicidad aguda por contacto con la piel (a la vista de los datos disponibles, no se cumplen los criterios de clasificación).</td> <td>GHS/CLP 3.1.2. OECD 402</td> </tr> <tr> <td>Ocular: No clasificado</td> <td>No disponible.</td> <td>-</td> <td>No está clasificado como un producto con toxicidad aguda en contacto con los ojos (falta de datos).</td> <td>GHS/CLP 1.2.5.</td> </tr> </tbody> </table>				Dosis y concentraciones letales de componentes individuales:	DL50 (OECD401) mg/kg bw Oral	DL50 (OECD402) mg/kg bw Cutánea	CL50 (OECD403) mg/m3-4h Inhalación	Acido sulfúrico	2140 Rata	-	> 375 Rata	Estimaciones de la toxicidad aguda (ATE) de componentes individuales:	ATE mg/kg bw Oral	ATE mg/kg bw Cutánea	ATE mg/m3-4h Inhalación	Acido sulfúrico	-	-	-	Vías de exposición	Toxicidad aguda	Cat.	Principales efectos, agudos y/o retardados	Criterio	Inhalación: No clasificado	ATE > 5000 mg/m3	No disponible.	No está clasificado como un producto con toxicidad aguda por inhalación (a la vista de los datos disponibles, no se cumplen los criterios de clasificación).	GHS/CLP 3.1.2. OECD 403	Cutánea: No clasificado	ATE > 2000 mg/kg bw	No disponible.	No está clasificado como un producto con toxicidad aguda por contacto con la piel (a la vista de los datos disponibles, no se cumplen los criterios de clasificación).	GHS/CLP 3.1.2. OECD 402	Ocular: No clasificado	No disponible.	-	No está clasificado como un producto con toxicidad aguda en contacto con los ojos (falta de datos).	GHS/CLP 1.2.5.
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Ingestion: No classified	ATE > 2000 mg/kg bw	No available.	No this classified as a product with toxicity acute by ingestion (to the view of the available data, the classification criteria are not met).	GHS/CLP 3.1.2. OECD 401
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GHS/CLP 3.1.3.6: Classification of the mix based in their components (formula of addition).

GHS/CLP 1.2.5: Classification of the mix based in their components (information supplementary about the hazards).

CORROSION / IRRITATION / SENSITIZATION :

Class of danger	Organs affected	Cat.	Main effects, treble I retarded	Criterion
- Corrosion/irritation respiratory: Not classified	-	-	It is not classified as a corrosive product either annoying by inhalation (to the view of the data available, No HE they comply classification criteria).	GHS/CLP 1.2.6. 3.8.2.2.1.
- Corrosion/irritation cutaneous: 	Fur 	Cat.1A	CORROSIVE: Causes severe skin burns.	GHS/CLP 3.2.2. OECD 404
- Injury/irritation ocular serious: 	Eyes 	Cat.1	INJURIES: Provokes injuries serious eye problems.	GHS/CLP 3.3.2. OECD 405
- Sensitization respiratory: Not classified	-	-	It is not classified as a sensitizing product by inhalation (to the view of the data available, No HE they comply the classification criteria).	GHS/CLP 3.4.2.1.
- Sensitization dermal: Not classified	-	-	It is not classified as a sensitizing product through contact with the skin (visible of the data available, No HE meet the classification criteria).	GHS/CLP 3.4.2.2. OECD 406

GHS/CLP 3.2.3.3: Classification of the mix when HE has of data for all the components either only for some. GHS/CLP 3.3.3.3: Classification of the mix when HE has of data for all the components either only for some. GHS/CLP 3.4.3.3: Classification of the mix when HE has of data for all the components either only for some. GHS/CLP 3.8.3.4: Classification of the mix when HE has of data for all the components either only for some. GHS/CLP 1.2.6: Classification of the mix based in their components (information supplementary about the dangers).

- ASPIRATION HAZARD :

Class of danger	Organs affected	Cat.	Main effects, treble I retarded	Criterion
- Danger of aspiration: Not classified	-	-	It is not classified as a hazardous product due to aspiration (in view of the data available, No HE they comply the classification criteria).	GHS/CLP 3.10.2.

GHS/CLP 3.10.3.3: Classification of the mix when HE has of data for all the components either only for some.

SPECIFIC TOXICITY IN CERTAIN ORGANS (STOT): Single exposure (SE) and/or Repeated exposure (RE):

No this classified as a product with toxicity specific in certain organs (to the view of the data available, No HE meet the classification criteria).

GHS/CLP 3.8.3.4: Classification of the mix when HE has of data for all the components either only for some.

EFFECTS :- Carcinogenic effects :

No this considered as a product carcinogen.

- Genotoxicity :

No this considered as a product mutagen.

- Reproductive toxicity :

No harms the fertility.No harms he development of the fetus.

- Effects via breastfeeding:

No this classified as a product harmful for the children fed with milk maternal.

DELAYED, IMMEDIATE AND CHRONIC EFFECTS OF SHORT AND LONG TERM EXPOSURE:Exposure routes

No available.

-Short- term exhibition:

Produces Burns in the fur either the eyes by contact straight either in the ways digestive in case of ingestion. fogs of fine Particles are irritating to the skin and respiratory tract. Causes serious eye damage.



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-Prolonged or repeated exposure:

The lungs they can be affected by the exposure prolonged either repeated. Can to provoke defects dental.

INTERACTIVE EFFECTS :

No available.

INFORMATION ON TOXICOKINETICS, METABOLISM AND DISTRIBUTION:

- D e r m a l absorption :

No available.

- B a s i c toxicokinetics :

No available.

INFORMATION :

No available.

11.2 INFORMATION REGARDING OTHER HAZARDS:

disrupting properties :

This product No contains substances with properties of disturbance endocrine identified either low assessment.

Other information:

No there is information additional available.

**SECTION 12 : INFORMATION ECOLOGICAL**

12.1 TOXICITY:

- Acute toxicity in aquatic environment of individual components	CL50 (OECD 203) mg/l-96horas	CE50 (OECD 202) mg/l-48horas	CE50 (OECD 201) mg/l-72horas
Sulphuric acid	20 - Peces	100 - Dafnias	100 - Algas

-Concentration without observed effect

No available

-Concentration with minimum observed effect

No available

ASSESSMENT OF AQUATIC TOXICITY :

Aquatic toxicity	Cat.	Main dangers to the aquatic environment	Criterio
- Acute aquatic toxicity: Not classified	-	It is not classified as a hazardous product with acute toxicity to aquatic organisms (based on available data, the classification criteria are not met).	GHS/CLP 4.1.2.
- Chronic aquatic toxicity:	-	It is not classified as a hazardous product with chronic toxicity to aquatic organisms, with long-lasting effects (based on available data, the classification criteria are not met).	GHS/CLP 4.1.2.

CLP 4.1.3.5.5.3: Classification of mixes in function of his toxicity sharp, through the addition of the components classified. CLP

4.1.3.5.5.4: Classification of mixes in function of his danger chronic (to long term), through the addition of the classified components .

12.2 PERSISTENCE AND DEGRADABILITY:

-Biodegradability :

No applicable (substance inorganic).

-Hydrolysis :

No applicable.

-Photodegradability :

No available.

12.3 POTENTIAL :

No bioaccumulative.

Bioaccumulation of individual components	logPow	BCF L/kg	Potential
sulfuric acid	- 2.2	3.2 (calculated)	Not bioaccumulative

12.4 MOBILITY ON THE GROUND:

No available

Mobility of individual components	log Pod	Henry 's constant Pa·m <sup>3</sup> /mol 20°C	Potential
sulfuric acid	- 0.13		Not bioaccumulative

12.5	<p><b>RESULTS OF THE PBT AND MPMB ASSESSMENT: (Annex XIII of Regulation (EC) No. 1907/2006):</b></p> <p>No meets the criteria PBT/vPvB : Life half in he half atmosphere Marine &lt; 60 days, life half in water sweet either estuarine &lt; 40 days, Life half in sediments marine &lt; 180 days, life half in sediments of water sweet either estuarine &lt; 120 days, life half in soil &lt; 120 days,Factor of bioconcentration BCF &lt; 2000, "Concentration without effect observed" to long term of the organisms of sweet water either Marine NOEC &gt; 0.01 mg/l,NO this classified as CMR,NO has potential of disturbance of the system endocrine.</p>
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12.6	<p><b>DISRUPTING PROPERTIES :</b></p> <p>This product No contains substances with properties of disturbance endocrine identified either low assessment.</p>
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12.7	<p><b>OTHER ADVERSE EFFECTS :</b></p> <p><b>:Ozone layer depletion potential :</b> No is dangerous for the layer of ozone.</p> <p><b>:Photochemical ozone formation potential :</b> No applicable.</p> <p><b>:Earth warming potential :</b> No applicable.</p>
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**SECTION 13 : CONSIDERATIONS RELATIVE TO THE ELIMINATION**

13.1	<p><b>WASTE TREATMENT METHODS: Directive 2008/98/CE ~ Regulation (EU) No. 1357/2014 (Law 22/2011):</b></p> <p>Take all the measures that be necessary for avoid to the maximum the production of waste. Analyze possible methods revaluation either recycling. No pour in drains either in he half atmosphere. Eliminate in a spot authorized of collection of waste. The waste they must manipulate and be eliminated of agreement with the legislations local and national current. For control of exposure and individual protection measures, see section 8.</p> <p><u>Elimination packaging empty:Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU (Law 11/1997, modified by RD.782/1998, RD.252/2006, RD.293/2018 and Law 22/2011, Order MAM/304/2002, Decision 2014/955/EU):</u></p> <p>Packaging empty and packaging they must be eliminated of agreement with the legislations local and national current.The classification of the packaging as residue dangerous will depend of the degree of emptied of the themselves, being he holder of the residue he responsible of its classification, of agreement with he Chapter fifteen 01 of the Order MAM/304/2002, and of his channeling for destination final suitable.With For contaminated containers and packaging, the same measures must be adopted as for the product.</p> <p><u>neutralization or destruction procedures :</u></p> <p>Dump officially authorized, of agreement with the regulations local.</p>
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**SECTION 14 : INFORMATION RELATIVE TO THE TRANSPORT**

14.1	<p><b>UN NUMBER OR ID NUMBER:</b></p> <p>2796</p>
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14.2	<p><b>OFFICIAL DESIGNATION OF TRANSPORTATION OF THE UNITED NATIONS:</b></p> <p>SULFURIC ACID</p>
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14.3	<p><b>TRANSPORT HAZARD CLASS(S) :</b></p> <p><u>Transport by road (ADR 2021) and Rail transport (RID 2021):</u></p> <ul style="list-style-type: none"> <li>- Class: 8</li> <li>- Cluster of packaging: II</li> <li>- Code of classification: C1</li> <li>- Code of restriction in tunnels: (E)</li> <li>- Category of transportation: 2, max. ADR 1.1.3.6. 333 I</li> <li>- Quantities limited: 1 I (see exemptions totals ADR 3.4)</li> <li>- Document of transport: Letter of bearing.</li> <li>- Instructions written: ADR 5.4.3.4</li> </ul> <p><u>Transport by sea (IMDG 39- 18):</u></p> <ul style="list-style-type: none"> <li>- Class: 8</li> <li>- Cluster of packaging: II</li> <li>- File of Emergency (FEm): FA,S- B</li> <li>- Guide Firsts Aid (GPA): 700</li> <li>- Pollutant of the Sea: No.</li> <li>- Document of transportation: Knowledge of shipment.</li> </ul> <p><u>Transport by air (ICAO/IATA 2021):</u></p> <ul style="list-style-type: none"> <li>- Class: 8</li> <li>- Cluster of packaging: II</li> <li>- Document of transportation: Knowledge aerial.</li> </ul> <p><u>Transport by inland waterways (ADN):</u></p> <p>No available</p>	    
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14.4	<p><b>GROUP :</b></p> <p>See section 14.3</p>
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14.5	<p><b>HAZARDS TO THE ENVIRONMENT:</b></p> <p>No applicable (No classified as dangerous for he half atmosphere).</p>
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14.6	<p><b>PARTICULAR PRECAUTIONS FOR USERS:</b></p> <p>Make sure of that the people that transport he product they know that do in case of accident either leak. Transport always in closed containers that are upright and secure.</p>
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14.7	<p><b>BULK MARITIME TRANSPORTATION IN ACCORDANCE WITH IMO INSTRUMENTS :</b></p> <p>No available.</p>
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## SECTION fifteen : INFORMATION REGULATORY

15.1	<p><a href="#">REGULATION AND LEGISLATION IN SUBJECT OF SECURITY, HEALTH AND HALF ATMOSPHERE SPECIFIC FOR THE SUBSTANCE EITHER THE MIX:</a></p> <p>The regulations applicable to this product by it general HE they mention to it long of this file of data of security.</p> <p><a href="#">Restrictions on manufacturing, marketing and use :</a></p> <p>See section 1.2</p> <p><a href="#">Hazard Warning :</a></p> <p>Yeah he product this intended to the public in general, is mandatory a sign tactile of danger. The Specifications techniques of the devices that allow detect the dangers to the touch they must conform to the rule ISO IN 11683, about 'Packaging and packaging. Tactile danger marks. Requirements.'</p> <p><a href="#">Safety Protection :</a></p> <p>Yeah he product this intended to the public in general, HE requires a closing resistant to the children. The closures of security for children that are used in packaging that they can return to close they must conform to the rule UNE 91-013 (ISO-8317), about 'Packaging of security testing of children - Requirements and methods of rehearsal for packaging that they can return to close.' The closures of security for children That employ in packaging that No they can return to close they must conform to the rule CEN 862, about 'Packaging of security to test children - Requirements and methods of rehearsal for packaging that No they can return to close for products No pharmacists.'</p> <p><a href="#">OTHER LEGISLATIONS:</a></p> <p><a href="#">Control of risks inherent to serious accidents (Seveso III):</a></p> <p>See section 7.2</p> <p><a href="#">Other local legislations:</a></p> <p>He receiver ought verify the possible existence of regulations local applicable to the product chemical.</p>
15.2	<p><a href="#">SAFETY ASSESSMENT :</a></p> <p>No available.</p>

## SECTION 16 : OTHER INFORMATION

16.1

**TEXT OF PHRASES AND NOTES CORRESPONDING TO THE SUBSTANCES REFERENCED IN HEADING 2 AND/OR 3:****Hazard statements according to Regulation (EU) No. 1272/2008–2021/849 (CLP), Annex III:**

H314 Provokes Burns serious in the fur and injuries eyepieces serious. H318 Provokes injuries eyepieces serious.

**Notes related to the identification, classification and labeling of substances or mixtures:**

Note B: Certain substances (acids, bases, etc.) HE they market in shape of solutions watery in different concentrations and, by they need a classification and a labelled different, well the dangers that present vary in function of the different concentrations. In the part 3, the tickets with the note b have a denomination general of the guy: "acid nitric ...%». In this case, he maker must indicate in the label the concentration of the dissolution in percentage. The concentration in percentage HE will understand always as weight/weight, unless explicitly specified otherwise.

**TIPS REGARDING TRAINING :**

HE recommends that he staff that Oh to manipulate this product perform a training basic about prevention of risks labor, with he end of ease the comprehension and interpretation of the records of data of security and of the labelled of the products.

**MAIN BIBLIOGRAPHICAL REFERENCES AND DATA SOURCES :**

- European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- Access to the Right of the Union European, <http://eur-lex.europa.eu/> \_
- Boundaries of exposure professional for Agents Chemicals in Spain, (INSST, 2021).
- Agreement European about transport international of goods dangerous by road, (ADR 2021).
- Code maritime international of goods dangerous IMDG included the amendment 39-18 (IMO, 2018).

**ABBREVIATIONS AND ACRONYMS:**

List of abbreviations and acronyms that HE could use (although No necessarily used) in this file of data of security:

- REACH: Regulation relative to the record, assessment, authorization and restriction of the substances chemicals.
- GHS: System Globally Harmonized of Classification and Labelled of products chemicals of the Nations United.
- CLP: Regulation European about Classification, Packing and Labelled of Substances and Mixtures chemicals.
- EINECS: Catalogue European of substances chemicals marketed.
- ELINCS: List European of substances chemicals notified.
- CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- UVCB: Substances of composition variable either unknown, products of reaction complex either materials biological.
- SVHC: Substances highly worrying.
- PBT: Substances persistent, bioaccumulative and toxic.
- vPvB: Substances very persistent and very bioaccumulative.
- DNEL: Level without effect derivative (REACH).
- PNEC: Concentration planned without effect (REACH).
- CL50: Concentration lethal, fifty by hundred.
- LD50: Dose lethal, fifty by hundred.
- UN: Organization of the Nations United.
- ADR: Agreement European about transport international of goods dangerous by road.
- RID: regulations concerning the international transportation of dangeous goods by rail.
- IMDG: Code maritime international of goods dangerous.
- IATA: International air Transportation Association.
- ICAO: International Civil Aviation Organization.



**LEGISLATIONS ON SAFETY DATA SHEETS :**

File of Data of Security of agreement with he Article 31 Regulation (EC) no. 1907/2006 (REACH) and he Exhibit of the Regulation (EU) No. 2020/878.

**HISTORICAL:                      REVIEW:**

Version: 1

06/10/2019

 <b>Tequima</b> S.L. <small>QUIMICA FINA</small>	<b>EDE SULFURIC ACID 37% ELECTROLYTE BATTERIES</b> Code: 093124/016		
<b>Version: 2</b>	<b>Revision: 11/22/2022</b>	Revision preceding: 06/10/2019	Date of impression: 11/22/2022
	Version: 2      11/22/2022 <a href="#">Modifications with respect to the previous Safety Data Sheet :</a> Changes that HE they have inserted regard to the former version due to the adaptation structural and of content of the File of Data of Security to Regulation (EU) No. 2020/878: All sections.		
The information of this File Data of Security, this based in the knowledge current and in the laws current of the EU and national, in As that the conditions of job of the users are out of our knowledge and control. He product No has to be used for purposes different To them that HE they specify, without have first a instruction by written, of his driving. Is always responsibility of the user take the Measures with he end of achieve with the requirements established in the legislations current. The information contained in this File of Data of security only means a description of the requirements of security of the prepared and No there is that consider it as a warranty of its properties.			