

Safety Data Sheet

according to regulation (CE) nb. 1272/2008

Print Date : 12th October 2021

Revision Date : 7th October 2021

Version 4

Vissain

1. Identification of the substance/preparation and of the company/undertaking

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|--|--|
| 1.1 Product name | Vissain |
| 1.2 Use of the substance/
the preparation | Acid solution to dissolve steel |
| 1.3 Identification of the
Company/undertaking | Savonnerie du Léman Christian Cottet
Ch. de Prévenoge 2
1024 Ecublens
Tel: 0041 21 691 39 34
E-mail: ccsavonnier@gmail.com |
| 1.4 Phone in case of emergency | 145 (tox Center) Switzerland |

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (CE) No 1272/2008

Corrosive to Metals (Category 1), H290
Skin corrosion (Sub-category 1A), H314
Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008



Danger

Corrosive (GHS 05)

Can cause serious burns in case of contact with the skin or eyes. Likely to damage certain materials (e.g. textiles). Harmful to animals, plants and organic materials of any kind.

Mention of danger

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

Advice of caution

P305+ P338 + P351IN CASE OF CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove the lenses of Contact if the victim in the door and if they Can be easily removed. Continue to rinse.

P234 : Keep only in the original container.
P280 Wear protective gloves/ Protective Clothing/ a eye protection equipment/ of the face.

3. Composition, information on the components

3.1 Chemical Characteristics

Aqueous solution

3.2 Formula

H2O4S

The components		Symbols	Risk phrase	Case	No. This
Sulfuric acid	≤ 20%	C	H290-H314	7664-93-9	231-639-5

For the full texte of the H-Statements mentioned in this section, see section 16.

4. First Aid

General indications

Take out the subjects of the hazardous area.
Remove contaminated clothing immediately by the product.

After Inhalation

Give fresh air, consult a doctor in the event of unrest.
In the case of unconsciousness, bedtime the person in lateral position of security and call an emergency Doctor. Use if necessary to the artificial respiration.

After contact with the skin

Eponger concentrated acid first with a pulp or a textile material hair because the acid reacts violently with water by releasing a strong heat. Wash with plenty of water. Immediate medical treatment is necessary because the corrosive effects non-skin treaties give wounds that heal slowly and with difficulty.

After contact with the eyes

Washing with water by separating the eyelids at least 15 minutes. Immediately consult an ophthalmologist. Go to a clinic of the eye if possible.

After ingestion

Rinse the mouth with water and then drink a lot of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a physician immediately.

Indications for the doctor

The following symptoms may appear :

Burning sensation, cough asthmatiforme, laryngitis, respiratory insufficiency, spasm, inflammation and swelling of the larynx, inflammation and swelling of the bronchial tubes, lung congestion, pulmonary edema.

The product is extremely destructive of the tissues of mucous membranes, the upper respiratory tract, eyes, and skin.

5. Measure in the fight against the fire

Means of extinction

Spray water or use alcohol-resistant foam, dry powder or CO Carbon.

Special Dangers of products of thermal decomposition or gases

Can decompose in a fire by releasing toxic gases, hazardous decomposition products, sulfur oxides, reacts exothermically with water.

Special equipment of security

Wear respiratory device independent of the ambient air.

Wear protective clothing total.

Other indications

Separately collect of contaminated extinction water, do not reject in the pipes. Cool by water spray containers closed in the vicinity of the fire source.

6. The measure to be taken in case of accidental release

Personal precautions

Wear respiratory protection. Avoid breathing vapor, the mists of spray or the Gas. Ensure adequate ventilation. Evacuate personnel to safe locations. Personal protective equipment, see section 8.

Measures for the protection of the environment

Do not discharge into surface waters or in the sewers. Avoid the penetration in the basement. In the case of pollution of streams, lakes or sewers, inform the competent authorities in accordance with the local provisions. Prevent the local authorities if of significant leaks can not be contained.

Methods and materials for containment and cleaning

Neutralize the milk of lime or with the carbonate of soda and rinse with water. The product can be eliminated as wastewater after neutralization, in accordance with local regulations. Methods of cleaning - minor spill: Collect to the assistance of an absorbent product liquids (sand, kieselguhr, neutralizing acid, universal binder). Keep in suitable containers and closed for the Elimination.

Other information

Treat the recovered product according to the section 13: "Considerations relating to the elimination".

7. Handling and Storage

Handling

Precautions to be taken for the handling:

Keep the container tightly closed. Use a personal protective equipment. Avoid contact with the skin and eyes. Do not breathe vapor or spray mist. Provide on the Safety Showers and Eye fountains in the workshops where the product is regularly manipulated. In the case of dilution, always add the product to the water. Never add water to the product.

Fire and Explosion Prevention

This product is not flammable. Preventive measures common to the protection against the fire. Releases of hydrogen in the presence of metals. Risk of explosion.

Hygiene measures

Do not eat, smoke or drink in the area of work. Wash hands before breaks and at the end of the working day. Immediately remove any clothing soiled. Avoid contact with the skin, eyes and clothing. Do not breathe vapor or spray mist.

Storage

Requirements Concerning the places and storage containers:

Store in a place with a soil resistant to acids. Store in the original container.

Indications concerning the common storage

Keep away from food and beverages, including those for animals. Keep away from combustible material.

Other indications on the storage conditions

Keep tightly closed in a cool and dry place. Keep in a well-ventilated place. The product is hygroscopic.

8. Exposure controls/personal protection

Control Settings

Components with occupational exposure limit values

The components	N° Cas es	Value	Parameters of Control	Basis
Sulfuric acid	766 4- 93-9	VME	0.1 mg/m3	Exposure limit values to workstations
Sulfuric acid	766 4- 93-9	Elvs	0.1 mg/m3	Exposure limit values to workstations

Technical controls are appropriate

To handle in accordance with good industrial hygiene practices and safety procedures. Wash hands before breaks and at the end of the working day.

Additional indications:

The present document is based on the lists in force at the time of its preparation.

General measures of protection and hygiene:

Do not eat, drink or smoke in the workplace.

Keep away from food products, drinks and food for animals.

Avoid contact with the eyes and with the skin.

Provide a shower and shower of eye on the place of work.

Do not inhale vapors, gases and aerosols.

Personal protective equipment:

Protection of the skin / Hands:

Handle with gloves. The gloves must be checked before use. Use a Technique of withdrawal of appropriate gloves in order to avoid that the skin Between in contact with the product (i.e. without touching the outer surface of the GLOVE). Discard gloves contaminated after the use in accordance with the laws in force and good laboratory practices. Wash and dry the hands.

The Gloves selected must meet the specifications of the Directive had 89/686/EEC and the standard in 374 which drift.

Contact Total

Material: Fluoro Rubber

Protection of Eyes/of the face

Safety glasses with full protection. Protective screen (20 cm minimum).Use a Eye protection equipment, tested and approved according to government standards in Force, such that NIOSH (US) gold in 166(had).

Respiratory protection

When the risk assessment shows that the port of respiratory devices is appropriate, use A facial mask total with versatile cartridge (US) or type ABEK (in 14387). If the Mask is the only means of protection use a self-contained breathing apparatus to facial screen Total. Use of the Hardware Tested and approved by standards such as NIOSH (US) or CEN (had).

Protection of the body

Complete combination of protection against chemicals, the type of equipment in Protection must be selected as a function of concentration and of the quantity of the substance Dangerous to the place of work.

Exposure controls related to the protection of the environment:

Do not discharge into surface waters or in the sewers.

Avoid the penetration in the basement. In the case of pollution of streams, lakes or sewers, inform the competent authorities in accordance with the local provisions. Prevent the local authorities if of significant leaks can not be contained

9. Physical and Chemical Properties

General indications

Form:	Liquid
Color:	Colorless
Odour:	Odourless
State Change	
Melting Point:	Not determined
Boiling point:	Env.105°C
Flash point	Not determined
Flammability (solid, gaseous)	This product is not flammable
Auto-inflammation:	Not applicable
Danger of explosion:	The product is not explosive
Limits of explosiveness:	Not applicable
Vapor pressure :	1.33 hPa to 145.8°C
Density at 20°C :	1.80 - 1.84 g/cm ³
Solubility in water :	Completely miscible
Value of the pH at 20°C :	< 1

10. Stability and Reactivity

Thermal decomposition / Conditions to Avoid:

Reacts with the following substances: bases, water. Corrosive effect with the metals ; releases hydrogen. Decomposes by heating.

Substances to avoid:

Bases, halides, organic materials, carbides, fulminates, nitrates, picrates, cyanides, chlorates, alkali halides, salts of zinc, permanganates, for example, potassium permanganate, hydrogen peroxide, perchlorates, phosphor nitromethane.

Reacts violently with:

Cyclopentadiene, oxime of cyclopentanone, amines of nitroaryle, hexalithium disilicide, oxide Phosphorous (III), metallic powders

Hazardous decomposition product: Refer to Chapter 5

Sulfur oxides, Stable under recommended storage conditions.
Reacts exothermically with water.

11. Toxicological information

Acute Toxicity:

Sulfuric acid Oral LD50 2140 mg/kg (rat)

Primary Effect of irritation:

Of the skin: Very Corrosive (rabbit).

Eyes: Very Corrosive (rabbit).
Risk of serious ocular lesions.

Awareness: Has not of sensitising effect on laboratory animals.

Subacute to chronic disease: No component of this product present at concentrations greater than or equal to 0.1% has not been identified as probable carcinogen, possible or recognized for the man by IARC.

Toxicological evidence complementary: in case of ingestion, serious burns of the mouth and throat, as well as danger of perforation of the 'esophagus and the 'stomach.

12. Ecological Information

Ecotoxic Effects:

The product is not readily biodegradable. All the values relating to the ecotoxicological effects refer to the pure substances. Harmful effects on aquatic organisms by displacement of the pH value. Generally a neutralization is necessary before the discharge of wastewater in the sewage treatment plants. Do not discharge into surface waters or in the sewers.

Mobility and potential of bio accumulation:

The product is mobile in the water. No data available for the bio accumulation.

Ecotoxic Effects, Aquatic Toxicity:

CL50/96H	42 mg/L (Gambusia affinis)
This50/24H	29 mg/L (Daphnia magna)
This50/48H	70-80 mg/L (Crangon crangon (shrimp))

Results of evaluations PBT and vPvB

The evaluation of the PBT character / vPvB is not available because the chemical safety assessment is not required / is not conducted.

13. Considerations relating to the elimination

Product – Recommendation :

Must not be evacuated with the garbage. Do not allow it to penetrate into the sewers.
Must be the subject of a special treatment in accordance with the legal requirements.

Must not be mixed with other solvents/products in view of the recycling.

Packaging not cleaned – Recommendation :

Contaminated packages must be emptied as completely as possible and can then, after adequate cleaning, be the subject of a recovery. The packaging that cannot be cleaned must be evacuated in the same way as the product.

14. Transport information

Transport by land ADR/RID and RTMDR/RTMDF (order on the transport of dangerous goods - road and train) (transboundary/domestic):

ADR class/RID-RTMDR/F (Ordinance on the transport of dangerous goods - road and train)

Un Number :

ADR/RID: 2796

: IMDG 2796

IATA: 2796

Name of Shipping of the United Nations:

ADR/RID: Sulfuric acid

IMDG Sulfuric Acid

IATA: Sulfuric acid

Class(s) of danger for the transportation:

ADR/RID: 8

IMDG): 8

IATA: 8

Dangers to the environment:

ADR/RID: non

Marine IMDG pollutant: No.

IATA: No.

Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code :

IMDG): Not applicable

Special precautions to be taken by the user

Not applicable

15. Regulatory Information

This safety data sheet is consistent with the requirements of Regulation (EC) No 1272/2008.

Marking in accordance with the EEC directives:

The product is classified and identified following the directives of the European Community /

The "GetStoffV" = the Regulation on Hazardous Products .

Special provisions:

Restriction of employment: Protection against dangerous substances contributes to a restriction of employment for pregnant women and young people under 16 years of age.

16. Other data

Vissain

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The information contained in this safety data sheet are based on the state of our knowledge, on the date indicated. The information in this fact sheet should be considered as a description of the safety requirements concerning the product, they must not be considered as a guarantee or a specification quality and have no contractual value on the properties of the latter. The information contained in this safety data sheet relate to the product specifically designated, and may not be valid with regard to the product associated with another product or to a process, unless this is specified in the text of the present document.

Recommended use

Reserved for professional users.

Text of the Sentences H
as mentioned under Article 3

H290: May be corrosive to metals.
H314: Causes severe skin burns and eye
damage.

Other information

Take knowledge of the mode of employment
on the label.

Non-liability clause

The information contained in this safety data
sheet have been established on the basis of
our knowledge at the date of publication of this
document.

Product to reach standards according to article 31 of Regulation 1907/2006

HS - Customs Code 2207-20 / N° CPID (FOPH): 506662-05