

## 1. Product and Company Identification

www.rxmarine.com

Product Name Sulphuric Acid 34%  
Part Number RXSOL-19-6285-025

Company Details:....

RX MARINE INTERNATIONAL  
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## 2. Composition / Information on ingredients

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Component	CAS Number	Classification	Concentration (%)
Sulphuric acid	7664-93-9	Met. Corr 1; Skin Corr. 1A;	34
Index-No. CAS-No.		H290; H314	
EC-No.			
Index-No.			

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

## 3. Hazards Identification

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### Classification of the substance or mixture

Corrosive to Metals, (Category 1)	H290: May be corrosive to metals.
Skin corrosion, (Sub-category 1A)	H314: Causes severe skin burns and eye damage.
Serious eye damage, (Category 1)	H318: Causes serious eye damage.

### Label elements

Signal Word	Danger
Hazard Statements	H290 May be corrosive to metals.  H314 Causes severe skin burns and eye damage.
Precautionary Statements	P234 Keep only in original packaging.  P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

None

This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine

disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine

disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Supplemental Hazard Statements

Other hazards

## 4. First Aid Measures

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### Description of first aid measures

#### General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

No data available

### Extinguishing media

**Suitable extinguishing media**

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

**Special hazards arising from the substance or mixture**

Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.

In a fire or if heated, a pressure increase will occur and the container may burst, with the

risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along

the ground. Vapors may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

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distance to a source of ignition and flash back.

Carbon oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

**Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

<b>Further information</b>	Prevent fire extinguishing water from contaminating surface water or the ground water system.
	spray to keep fire-exposed containers cool.Promptly isolate the scene by removing all persons from the vicinity of the incident if
	there is a fire. No action shall be taken involving any personal risk or without suitable
	training. Move containers from fire area if this can be done without risk. Use water
	spray to keep fire-exposed containers cool.

## 6. Accidental Release Measures

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**Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**Reference to other sections**

For disposal see section 13.

## 7. Handling and Storage

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**Precautions for safe handling**

**Advice on safe handling**

Work under hood. Do not inhale substance/mixture.

**Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions**

Tightly closed. Dry.

**Storage class**

Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

**Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. Exposure controls and personal protection

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**Control parameters**

**Ingredients with workplace control parameters**

**Exposure controls**

**Personal protective equipment**

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

**Skin protection**

This recommendation applies only to the product stated in the safety data

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sheet,

supplied by us and for the designated use. When dissolving in or mixing with other

substances and under conditions deviating from those stated in EN 16523-1 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: [www.kcl.de](http://www.kcl.de)).

Full contact

Material: Chloroprene

Minimum layer thickness: 0,65 mm

Break through time: 480 min

Material tested:KCL 720 Camapren®

This recommendation applies only to the product stated in the safety data sheet,

supplied by us and for the designated use. When dissolving in or mixing with other

substances and under conditions deviating from those stated in EN 16523-1 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact

Material: Latex gloves

Minimum layer thickness: 0,6 mm

Break through time: 60 min

Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M).

Flame retardant antistatic protective clothing.

Recommended Filter type: Filter A-(P3)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory

protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Do not let product enter drains.

## Body Protection

### Respiratory protection

### Control of environmental exposure

## 9. Physical and chemical properties

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Appearance

Clear colourless

Odour	Slight odour
pH	110% solution
Boiling Point	Not available
Melting Point	3 °C
Evaporation Rate	Not available
Flash Point	Not available
Flammability Limits	Not available
Specific Gravity	1.24 – 1.27

materials. Extremely flammable in the presence of the following materials or conditions: oxidizing

materials.

Vapour Density	Not available
Vapour Pressure	Not available
Solubility (water)	Soluble
Upper Explosion Limit	Not available
Lower Explosion Limit	Not available.
Partition Coefficient	Not available
Auto Ignition Temperature	Not available
Decomposition Temperature	Not available
Explosive Properties	Not available
% Volatiles	Not available

## 10. Stability and reactivity

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<b>Reactivity</b>	No data available
<b>Chemical stability</b>	The product is chemically stable under standard ambient conditions (room temperature) .
<b>Possibility of hazardous reactions</b>	A risk of explosion and/or of toxic gas formation exists with the following substances:
	Water
	Alkali metals
	alkali compounds
	Ammonia
	Aldehydes
	Acetonitrile
	Alkaline earth metals
	Alkalines
	Acids
	Alkaline earth compounds
	Metals
	Metal alloys
	Oxides of phosphorus
	Phosphorus

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Hydrides  
Halogen-halogen compounds  
Oxyhalogenic compounds  
Permanganates  
Nitrates  
Carbides  
Combustible substances  
Organic solvent  
Acetylidene  
Nitriles  
Organic nitro compounds  
Anilines  
Peroxides  
Picrates  
Nitrides  
Lithium silicide  
Iron(III) compounds  
Bromates  
Chlorates  
Amines  
Perchlorates  
Hydrogen peroxide  
No information available  
No data available  
In the event of fire: see section 5

**Conditions to avoid**

**Incompatible materials**

**Hazardous decomposition products**

## 11. Toxicological information

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### Information on toxicological effects

**Acute toxicity**

LD50 Oral - Rat - male - 207,0 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other

changes.

Behavioral:Convulsions or effect on seizure threshold.

Gastrointestinal:Ulceration or bleeding from stomach.

(ECHA)

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of

perforation of the esophagus and the stomach.

Acute toxicity estimate Oral - 207 mg/kg

(ATE value derived from LD50/LC50 value)

LC50 Inhalation - Rat - 1 h - > 710 mg/m<sup>3</sup>

Remarks: (RTECS)

LD50 Dermal - Rabbit - 301,0 mg/kg

Remarks: Behavioral:Tremor.

Gastrointestinal:Changes in structure or function of salivary glands.

Kidney, Ureter, Bladder:Other changes.

(ECHA)

Acute toxicity estimate Dermal - 301 mg/kg

(ATE value derived from LD50/LC50 value)

Skin - Rabbit

Result: Causes burns.

Remarks: (ECHA)

Not available

Not available

Not available

Not available

Not available

Not available.

Not available.

Not available.

Not available.

#### Skin corrosion/irritation

sensitization

mutagenicity

Carcinogenicity

Reproductive toxicity

Teratogenicity

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Aspiration hazard

Information on the likely routes of exposure

## 12. Ecological information

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Persistence and degradability

No data available

Toxicity to fish

Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 75 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

Static test EC50 - Daphnia magna (Water flea) - 42,81 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products)

Toxicity

The value is given in analogy to the following substances: maleic acid  
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520 mg/l - 96 h

Toxicity to bacteria

EC10 - Bacteria - 14 mg/l - 72 h Remarks: (Lit.) EC5 - E.coli - 15.000 mg/l Remarks: (Lit.) (maximum permissible toxic concentration)

Toxicity to algae

Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 74,35 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: maleic acid

Products Biodegradation	The methods for determining the biological degradability are not applicable to inorganic substances.
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	No data available
Other adverse effects	No data available .

### 13. Disposal considerations

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Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
Contaminated packaging	Dispose of as unused product.
Waste treatment Method	See <a href="http://www.retrologistik.com">www.retrologistik.com</a> for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

### 14. Transport information

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UN number	ADR/RID:2404 IMDG:2404 IATA: 2404
UN proper shipping name	ADR/RID:PROPIONITRILE IMDG:PROPIONITRILE IATA:PROPIONITRILE
Transport hazard class(es)	ADR/RID: 3 (6.1) IMDG: 3 (6.1) IATA:3 (6.1)
Packaging group	ADR/RID: II IMDG: II IATA:II
Environmental hazards	ADR/RID: No IMDG: No IATA: No
Special precautions for user	No data available
Further information	Not classified as dangerous in the meaning of transport regulations.

### 15. Regulatory information

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<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
<b>Other regulations</b>	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
<b>Chemical Safety Assessment</b>	For this product a chemical safety assessment was not carried out

### 16. Other information

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Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.
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