

## 1. Product and Company Identification

www.rxmarine.com

Product Name **RXSOL-60-6509-001**  
Product Type ACETONITRILE FOR HPLC  
Revised date 27-04-2019

### Company Details:

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

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**Substance / Preparation :** Preparation.

Substance name Contents CAS No

Acetonitrile : 99.9% 75-05-8

## 3. Hazards Identification

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### 3.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : F; R11

Xn; R20/21/22

Xi; R36

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4)

H332

Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312

Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225

### 3.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s) : F : Highly flammable

Xn : Harmful



R Phrase(s) : R11 : Highly flammable. R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed. R36 : Irritating to eyes.

S Phrase(s) : S1/2 : Keep locked up and out of reach of children. S16 : Keep away from sources of ignition - No smoking. S36/37 : Wear suitable protective clothing and gloves. Labelling Regulation EC 1272/2008 (CLP) Hazard pictograms



Signal words : Danger

Hazard statements : H225 : Highly flammable liquid and vapour.


H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H319 : Causes serious eye irritation.


H332 : Harmful if inhaled.

Precautionary statements


 General : P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

 Prevention : P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical, ventilating, lighting, , equipment.

P210: Keep away from heat, sparks, open flames or hot surfaces.  No smoking.

P280: Wear protective gloves, protective clothing, eye protection, face protection.


P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P233: Keep container tightly closed.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

 Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.

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

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

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P337+P313: If eye irritation persists: Get medical advice/attention.

P370+P378: In case of fire: Use for extinction.

☒ Storage : P403+P235: Store in well-ventilated place. Keep cool.

☒ Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 3.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## 4. First Aid Measures

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### 4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Specific treatment (see on this label). Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor.

Eye contact : Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Ingestion : Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

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

Symptoms relating to use : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes serious eye irritation. Danger of

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serious damage to health by prolonged exposure through inhalation.

Swallowing a small quantity of this material will result in serious health hazard.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## **5. Fire-fighting Measures**

www.r

### **5.1. Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

### **5.2. Special hazards arising from the substance or mixture**

Flammable class : Highly flammable liquid and vapour.

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

### **5.3. Advice for fire-fighters**

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## **6. Accidental Release Measures**

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### **6.1. Personal precautions, protective equipment and emergency procedures**

For emergency responders : Equip cleanup crew with proper protection.

Ventilate area.

Technical measures : Use special care to avoid static electric charges.

Special precautions : Remove ignition sources. No naked lights. No smoking.

For non-emergency personnel : Evacuate unnecessary personnel.

### **6.2. Environmental precautions**

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### **6.3. Methods and material for containment and cleaning up**

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Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth

as soon as possible. Store away from other materials. Collect spillage.

#### **6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

## **7. Handling and Storage**

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### **7.1. Precautions for safe handling**

Handling : Handle empty containers with care because residual vapours are flammable.

Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, , equipment.

Special precautions : No naked lights. No smoking.

### **7.2. Conditions for safe storage, including any incompatibilities**

Storage : Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.

## **8. Exposure controls and personal protection**

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### **8.1. Exposure controls**

Personal protection : Avoid all unnecessary exposure.

☒ Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

☒ Hand protection : Wear protective gloves.

☒ Eye protection : Chemical goggles or safety glasses.

☒ Others : When using, do not eat, drink or smoke.

### **8.2. Control parameters**

Occupational Exposure Limits : No data available.

Occupational Exposure Limits : Acetonitrile : ILV (EU) - 8 H - [mg/m<sup>3</sup>] : ( 70 Skin. )

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Acetonitrile : ILV (EU) - 8 H - [ppm] : ( 40 Skin. )

Acetonitrile : VLA-ED [ppm] : 40

Acetonitrile : VLA-ED [mg/m<sup>3</sup>] : 68

Acetonitrile : VLA-EC [ppm] : 60

Acetonitrile : VLA-EC [mg/m<sup>3</sup>] : 102

VLA-ED [ppm] : 40

VLA-ED [mg/m<sup>3</sup>] : 68

VLA-EC [ppm] : 60

VLA-EC [mg/m<sup>3</sup>] : 102

ILV (EU) - 8 H - [ppm] : ( 40 Skin. )

ILV (EU) - 8 H - [mg/m<sup>3</sup>] : ( 70 Skin. )

## 9. Physical and chemical properties

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### 9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

Odour threshold : No data available.

pH value : No data available.

Melting point [°C] : -480C

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : 525

Flammability (solid, gas) : Flammable.

Highly flammable liquid and vapour

Flash point [°C] : 20C

Boiling point [°C] : 81

Initial boiling point [°C] : N/A

Final boiling point [°C] : N/A

Evaporation rate : 5.8

Vapour pressure [20°C] : 9.7kPa

Vapour pressure mm/Hg : 73

Vapour density : 1,4

Density [g/cm<sup>3</sup>] : 0,79

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Relative density, gas (air=1) : 1,4

Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Complete.

Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : 7

## 9.2. Other information

Explosive properties : N/A

Explosion limits - upper [%] : N/A

Explosion limits - lower [%] : N/A

Oxidising properties : No data available.

## 10. Stability and reactivity

[www.rxmarine.com](http://www.rxmarine.com)

### 10.1. Reactivity

Reactivity : Not established.

### 10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

### 10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Open flame.

### 10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

May release flammable gases.

## 11. Toxicological information

[www.rxmarine.com](http://www.rxmarine.com)

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### 11.1. Information on toxicological effects

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Acute toxicity

☒ Inhalation : Harmful if inhaled.

☒ Dermal : Harmful in contact with skin.

- LD50 Rabbit dermal [mg/kg] : 50

☒ Ingestion : Harmful if swallowed.

- Rat oral LD50 [mg/kg] : 100

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Causes serious eye irritation.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met

12. Ecological information

[www.rxmarine.com](http://www.rxmarine.com)

### 12.1. Toxicity

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

### 12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

### 12.4. Mobility in soil

Mobility in soil : Not established.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation

REACH.

## 12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

## 13. Disposal considerations

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### 13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Handle empty containers with care because residual vapours are flammable.

## 14. Transport information

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### 14.1. Land transport (ADR-RID)

Proper shipping name : ACETONITRILE

UN N° : 1648

H.I. nr : 33

ADR - Class : 3

Labelling - Transport : 3 : Flammable liquid.

ADR - Classification code : F1

ADR - Group : II

ADR - Packing instructions : P001 R001

ADR - Limited Quantity : 1 L

ADR - Tunnel code : D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and

E. Other carriage: Passage forbidden through tunnels of category E.

### 14.2. Sea transport (IMDG) [English only]

Proper shipping name : ACETONITRILE

UN N° : 1648

IMO-IMDG - Class or division : 3 : Flammable liquid.

IMO-IMDG - Packing group : II

IMO- IMDG - Packing instructions : P001

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IMO-IMDG - Limited quantities : 1 L

IMO-IMDG - Marine pollution : No

EMS-Nr : F-E S-D

### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : ACETONITRILE

UN N° : 1648

IATA - Class or division : 3 : Flammable liquid.

IATA - Packing group : II

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 353

instruction

- Passenger and Cargo - Maximum : 5 L

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 364

- Cargo only - Maximum Quantity/ : 60 L

Packing

IATA - Limited Quantites : 1 L

ERG-Nr : 3L

ADR - Packing instructions : P001

ADR - Limited Quantity : 1 L

ADR - Tunnel code : D/E : Bulk or tank carriage: Passage forbidden through tunnels of

category D and

E. Other carriage: Passage forbidden through tunnels of category E.

### 14.2. Sea transport (IMDG) [English only]

Proper shipping name : ACETIC ACID,

UN N° : 2789

IMO-IMDG - Class or division : 8 : Corrosive substance. ( 3 : Flammable liquid. )

IMO-IMDG - Packing group : II

IMO- IMDG - Packing instructions : P001

IMO-IMDG - Limited quantities : 1 L

IMO-IMDG - Marine pollution : No

EMS-Nr : F-E S-C

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### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : ACETIC ACID

UN N° : 2789

IATA - Class or division : 8 : Corrosive substance. ( 3 : Flammable liquid. )

IATA - Packing group : II

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 851

instruction

- Passenger and Cargo - Maximum : 1 L

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 855

- Cargo only - Maximum Quantity/ : 30 L

Packing

IATA - Limited Quantities : 0.5 L

ERG-Nr : 8F

## 15. Regulatory information

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### 15.1. Safety, health and environmental regulations/legislation specific for the

substance or mixture

Safety, health and environmental : Ensure all national/local regulations are observed.

regulations/legislation specific for the substance or mixture

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

### 15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN

PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification,

labelling and packaging of substances and mixtures, amending and repealing Directives

67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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