

## 1. Product and Company Identification

www.rxmarine.com

Product Name Glycerin USP  
Part Number RXSOL-60-6130-040

### Company Details:....

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
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## 2. Composition / Information on ingredients

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### Substances

Formula C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>  
Molecular weight 92,09 g/mol  
CAS-No 56-81-5  
EC-No. 200-289-5

No components need to be disclosed according to the applicable regulations.

## 3. Hazards Identification

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Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Label elements No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Other hazards 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

## 4. First Aid Measures

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### Description of first aid measures

If inhaled	After inhalation: fresh air.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower
In case of eye contact	After eye contact: rinse out with plenty of water. Remove contact lenses.
If swallowed	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
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

## 5. Fire-fighting Measures

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### 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.
	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.
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the ground. Vapors may accumulate in low or confined areas or travel a considerable

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

Further information

In the event of fire, wear self-contained breathing apparatus.

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. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions

For personal protection see section 8.

Methods and materials for containment and cleaning up

Do not let product enter drains.

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

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Recommended storage temperature see product label.

Recommended storage temperature see product label. Tightly closed.

Specific end use(s)

Recommended storage temperature see product label.

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

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). Safety glasses

Skin protection

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 EN374 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: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

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 EN374 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: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

## Respiratory protection

Material tested:KCL 741 Dermatril® L

Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following

standards: DIN EN 143, DIN 14387 and other accompanying standards relating to

the used respiratory protection system.

Recommended Filter type: Filter type P1

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..

## Control of environmental exposure

# 9. Physical and chemical properties

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## Information on basic physical and chemical properties

Physical state

Viscous

Color

Clear

Odor

Odorless

Melting point/freezing point

Freezing point: 18,17 °C at 1.013 hPa - (ECHA)

Initial boiling point and boiling range

290 °C at 1.013,25 hPa

Flammability (solid, gas)

No data available

Upper/lower flammability or explosive limits

Upper explosion limit: 19 %(V) at 1013 h Pa

Lower explosion limit: 2,7 %(V) at 1013 h Pa

Flash point

No data available

Autoignition temperature

370 °C

Decomposition temperature

> 290 °C

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

materials.

pH

Ca.5 at 100 g/l at 20 °C

(External MSDS)

Viscosity

Viscosity, kinematic: No data available

Viscosity, dynamic: 1.412 mPa.s at 20 °C - OECD Test Guideline

114612 mPa.s at 30 °C - OECD Test Guideline 11414,8 mPa.s at

100 °C - OECD Test Guideline 114

1.000 g/l at 25 °C - miscible

Water solubility

Log Pow: -1,75 at 25 °C - Bioaccumulation is not expected.

Partition coefficient: n-octanol/water

Vapor pressure

< 0,001 hPa at 20 °C

Density

1,261 g/cm3 at 20 °C

Relative density

No data available

Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	None
Other safety information	
Surface tension	Ca.63,4 mN/m at 1.000g/l at 20 °C
Relative vapor density	3,18 - (Air = 1.0)

## 10. Stability and reactivity

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Reactivity	No data available
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	<p>Risk of explosion with:</p> <p>halogens</p> <p>Strong oxidizing agents</p> <p>peroxi compounds</p> <p>hydrogen peroxide</p> <p>Nitriles</p> <p>perchloric acid</p> <p>with</p> <p>Lead oxides</p> <p>Nitric acid</p> <p>with</p> <p>sulfuric acid</p> <p>Risk of ignition or formation of inflammable gases or vapours with:</p> <p>potassium permanganate</p> <p>hydrides</p> <p>calcium hypochlorite</p> <p>Fluorine</p> <p>with</p> <p>Lead oxides</p> <p>Exothermic reaction with:</p> <p>Oxides of phosphorus</p> <p>chromium(VI) oxide</p> <p>phosphorus halides</p> <p>Acetic anhydride</p> <p>with</p>

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phosphorous oxichloride

with

Nitrobenzene

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 and female - > 2.000 mg/kg

(OECD Test Guideline 420)

LC50 Inhalation - Rat - male and female - 4 h - > 5,05 mg/l

(OECD Test Guideline 403)

Remarks: (in analogy to similar products)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

Remarks: (in analogy to similar products)

#### Skin corrosion/irritation

The value is given in analogy to the following substances: disodium molybdate

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

Remarks: (in analogy to similar products)

#### Serious eye damage/eye irritation

The value is given in analogy to the following substances: Molybdenum dioxide

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

Remarks: (in analogy to similar products)

#### Respiratory or skin sensitization

The value is given in analogy to the following substances: Molybdenum dioxide

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Remarks:

## Germ cell mutagenicity

(in analogy to similar products)

Test Type: Micronucleus test

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Disodium molybdate dihydrate

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Disodium molybdate dihydrate

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Disodium molybdate dihydrate

## Carcinogenicity

No data available

## Reproductive toxicity

No data available

## Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

No data available

## Aspiration hazard

No data available

## 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



Toxicity to algae	mg/l Remarks: (Lit.) (maximum permissible toxic concentration) 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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Waste treatment Method	No data available
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### 14. Transport information

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UN number	ADR/RID: IMDG: IATA:
UN proper shipping name	ADR/RID: Not dangerous goods  IMDG: Not dangerous goods  IATA: Not dangerous goods
Transport hazard class(es)	ADR/RID: IMDG: IATA:
Packaging group	ADR/RID: IMDG: IATA:
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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Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

### 16. Other information

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Other Information	<p>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.</p> <p>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage,</p>
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