

## 1. Product and Company Identification

www.rxmarine.com

Product Name **RXSOL-60-6604-683**  
Product Type HYDRAZINE HYDRATE 80%  
Revised date

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

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Email [mail@rxmarine.com](mailto:mail@rxmarine.com)

## 2. Composition / Information on ingredients

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Substance / Preparation : HYDRAZINE HYDRATE 80%

CAS No :7803-57-8

Substance.

Contains no other components or impurities which will influence the classification of the product.

## 3. Hazards Identification

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### 3.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : R10 T; R23/24/25 C; R34 R43 N; R50-53

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

Health hazards : Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301

Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331

Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317

Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311

Physical hazards : Flammable liquids - Category 3 - Warning (CLP : Flam. Liq. 3) H226

Environmental hazards : Hazardous to the aquatic environment - Acute hazard -

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Category 1 - Warning (CLP : Aquatic Acute 1) H400

Hazardous to the aquatic environment - Chronic hazard - Category 1 -

Warning ( CLP : Aquatic Chronic 1) H410

### 3.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s) : T : Toxic N : Dangerous for the environment

R Phrase(s) : R45 : May cause cancer. R10 : Flammable.

R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.

R34 : Causes burns. R43 : May cause sensitization by skin contact.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment. S Phrase(s) : S53 : Avoid exposure -

obtain special instructions before use. S45 : In case of accident or if you feel unwell,

seek medical advice immediately ( show the label when possible).

S60 : This material and its container must be disposed of as hazardous waste.

S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

Signal words : Danger Hazard statements : H226 : Flammable liquid and vapour.

H314 : Causes severe skin burns and eye damage. H301 : Toxic if swallowed.

H311 : Toxic in contact with skin. H331 : Toxic if inhaled. H317 : May cause an allergic skin reaction.

H410 : Very toxic to aquatic life with long lasting effects. Precautionary statements

☒ 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.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P273: Avoid release to the environment.

P233: Keep container tightly closed.

P264: Wash thoroughly after handling.

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

P272: Contaminated work clothing should not be allowed out of the workplace.

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

P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.

P391: Collect spillage.

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.

P333+P313: If skin irritation or rash occurs : Get medical advice.

P363: Wash contaminated clothing before reuse.

P361: Remove immediately all contaminated clothing.

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

☞ Storage : P403+P233: Store in well-ventilated place. Keep container tightly closed.

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

P405: Store locked up.

☞ 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.

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

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

### 4.1. Description of first aid measures

Inhalation : Specific treatment (see on this label). Immediately call a POISON CENTER

or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact : Wash contaminated clothing before reuse. If skin irritation or rash occurs :

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Get medical advice. Specific treatment (see on this label). Immediately call a POISON

CENTER or doctor. Wash with plenty of soap and water. Remove/Take off

immediately all contaminated clothing.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor.

Ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER or doctor. Specific treatment (see on this label).

#### 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 severe skin burns and eye damage.

Danger of serious damage to health by prolonged exposure through inhalation.

May cause an allergic skin reaction. 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.rxmarine.com](http://www.rxmarine.com)

#### 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

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

present. Thermal decomposition generates : Corrosive vapours.

#### 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.

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## 6. Accidental Release Measures

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

### 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. Avoid release to the environment.

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

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

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

### 7.1. Precautions for safe handling

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

Take precautionary measures against static discharge. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a wellventilated area. Do not breathe dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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 only non-sparking tools. Use explosion-proof electrical, ventilating,

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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. Keep container tightly closed. Ground/bond container and receiving equipment.

Storage regulation : Comply with applicable regulations.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Heat sources.

#### 7.3. Specific end use(s)

Specific end use(s) : None.

## 8. Exposure controls and personal protection

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

#### 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.

☒ Skin protection : Wear suitable protective clothing.

☒ Eye protection : Chemical goggles or face shield.

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

#### 8.2. Control parameters

Occupational Exposure Limits : No data available.

## 9. Physical and chemical properties

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

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

Physical state at 20 °C : Liquid.

Odour threshold : No data available.

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pH value : No data available.

Melting point [°C] : -570C

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : 310 °C

Flammability (solid, gas) : Flammable liquid and vapour.

N/A

Flash point [°C] : 96 °C

Boiling point [°C] : 1170C

Initial boiling point [°C] : N/A

Final boiling point [°C] : N/A

Evaporation rate : N/A

Vapour pressure [20°C] : N/A

Vapour pressure mm/Hg : N/A

Vapour density : 1,1

Density [g/cm3] : 1,028

Relative density, gas (air=1) : N/A

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

Solubility in water [% weight] : Miscible with water

Solubility in water : N/A

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

Solubility : N/A

Viscosity at 40°C [mm2/s] : 0.90 cps

## 9.2. Other information

Explosive properties : N/A

Explosion limits - upper [%] : 99,99%

Explosion limits - lower [%] : 3,50%

Oxidising properties : No data available.

## 10. Stability and reactivity

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

### 10.1. Reactivity

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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.

Overheating.

Heat. Sparks.

#### 10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

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

Thermal decomposition generates : Corrosive vapours. May release flammable gases.

## 11. Toxicological information

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

#### 11.1. Information on toxicological effects

##### Acute toxicity

☒ Inhalation : Toxic if inhaled.

☒ Dermal : Toxic in contact with skin.

☒ Ingestion : Toxic if swallowed.

Corrosion : Causes severe skin burns and eye damage.

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

Sensitization : May cause an allergic skin reaction.

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.



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## 12. Ecological information

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

### 12.1. Toxicity

Toxicity information : Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence - degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

### 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

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

### 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 : Hazardous waste due to toxicity.

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 : HYDRAZINE HYDRATE or HYDRAZINE, AQUEOUS

SOLUTION with not less than

37% hydrazine, by mass

UN N° : 2030

H.I. nr : 86

ADR - Class : 8

Labelling - Transport : 8 : Corrosive substance. 6.1 : Toxic substances.

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ADR - Classification code : CT1

ADR - Group : II

ADR - Packing instructions : P001

ADR - Limited Quantity : 1 L

ADR - Tunnel code : E : Passage forbidden through tunnels of category E.

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

Proper shipping name : HYDRAZINE HYDRATE or HYDRAZINE,

AQUEOUS SOLUTION with not less than 37% hydrazine, by mass

UN N° : 2030

IMO-IMDG - Class or division : 8 : Corrosive substance. ( 6.1 : Toxic substances. )

IMO-IMDG - Packing group : II

IMO- IMDG - Packing instructions : P001

IMO-IMDG - Limited quantities : 1 L

IMO-IMDG - Marine pollution : Yes

EMS-Nr : F-A

S-B

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

Proper shipping name : HYDRAZINE HYDRATE or HYDRAZINE, AQUEOUS

SOLUTION with not less than

37% hydrazine, by mass

UN N° : 2030

IATA - Class or division : 8 : Corrosive substance. ( 6.1 : Toxic substances. )

IATA - Packing group : II

IATA - Passenger and Cargo Aircraft : NOT ALLOWED

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IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 855

- Cargo only - Maximum Quantity/ : 30 L

Packing

ERG-Nr : 8P

## 15. Regulatory information

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

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.

## 16. Other information

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

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

Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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