

## 1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-60-6604-984  
Product Type METHYL-iso-BUTYL KETONE LR  
Revised date

### Company Details:

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

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## 2. Composition / Information on ingredients

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Substance / Preparation : 4-Methylpentan-2-one

CAS No :108-10-1

Substance.

Substance name Contents CAS No

4-Methylpentan-2-one : 100 % 108-10-1

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 : F; R11

Xn; R20 R66

Xi; R36/37

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

Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract

irritation - Category 3 - Warning (CLP : STOT SE 3) H335

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

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Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

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) : Xn : Harmful

F : Highly flammable

R Phrase(s) : R11 : Highly flammable.

R20 : Harmful by inhalation.

R36/37 : Irritating to eyes and respiratory system.

R66 : Repeated exposure may cause skin dryness or cracking.

S Phrase(s) : S2 : Keep out of the reach of children.

S9 : Keep container in a well-ventilated place.

S16 : Keep away from sources of ignition - No smoking.

S29 : Do not empty into drains.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

Signal words : Danger

Hazard statements : H225 : Highly flammable liquid and vapour.

H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

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.

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P264: Wash thoroughly after handling.

☒ Response : 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.

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

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.

### 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 : 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. Remove/Take off immediately all contaminated clothing.

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. Do NOT induce vomiting. Rinse mouth.

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

Symptoms relating to use : Danger of serious damage to health by prolonged exposure through inhalation. Causes serious eye irritation. May cause respiratory irritation.

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Repeated exposure may cause skin dryness or cracking.

#### 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

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### 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

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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

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. Wash thoroughly after handling. Avoid breathing dust, fume, gas, mist, vapours, spray.

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

### 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 - 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

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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.

OEL (UK)-LTEL [ppm] : 50

OEL (UK)-STEL [ppm] : 100

# 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] : -80

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : 475

Flammability (solid, gas) : Flammable.

Highly flammable liquid and vapour.

Flash point [°C] : 14

Boiling point [°C] : 116

Initial boiling point [°C] : 117°C

Final boiling point [°C] : 118 °C

Evaporation rate : N/A

Vapour pressure [20°C] : 20 hPa at 20 °C

Vapour pressure mm/Hg : 5.3 (20° C)

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Vapour density : 3,46

Density [g/cm<sup>3</sup>] : 0.8

Relative density, gas (air=1) : 3.5

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

Solubility in water [% weight] : 2 (20° C)

Solubility in water : N/A

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

Solubility : N/A

Viscosity at 40°C [mm<sup>2</sup>/s] : N/A

## 9.2. Other information

Explosive properties : N/A

Explosion limits - upper [%] : 8

Explosion limits - lower [%] : 1.2

Oxidising properties : No data available.

## 10. Stability and reactivity

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### 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.

### 11.1. Information on toxicological effects

#### Acute toxicity

☒ Inhalation : Harmful if inhaled.

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

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

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

Irritation : Causes serious eye irritation. May cause respiratory irritation.

Repeated exposure may cause skin dryness or cracking.

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

### 12.1. Toxicity

Toxicity information : Not established.

### 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

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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 : 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 : METHYL ISOBUTYL KETONE

UN N° : 1245

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.

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

Proper shipping name : METHYL ISOBUTYL KETONE

UN N° : 1245

IMO-IMDG - Class or division : 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-D

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

Proper shipping name : METHYL ISOBUTYL KETONE

UN N° : 1245

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 Quantities : 1 L

ERG-Nr : 3L

## 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

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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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