

## 1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-60-6605-055  
Product Type N- BUTYRIC ACID 99 % FOR SYNTHESIS  
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, Nairobi

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## 2. Composition / Information on ingredients

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2.1. Substance: n-BUTYRIC ACID FOR SYNTHESIS

CAS No : 107-92-6

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 according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, H314

Category 1B

Classification according to Directive 67/548/EEC or 1999/45/EC

Adverse physicochemical, human health and environmental effects

No additional information available

3.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Extra labelling to displayExtra classification(s) to display

Symbol(s) : C: Corrosive

R Phrase(s) : R34: Cause burns.

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S Phrase(s) : S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36: Wear suitable protective clothing.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Hazard pictograms

Signal word : Danger

Hazard statements : H314 - Causes severe skin burns and eye damage

Precautionary statements : P280 - Wear protective gloves, protective clothing, eye protection, face protection

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

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

P310 - Immediately call a doctor

3.3. Other hazards

No additional information available.

## 4. First Aid Measures

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### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing

. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after 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/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries : Causes severe skin burns and eye damage.

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Symptoms/injuries after eye contact : Causes serious eye damage.

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

No additional information available

## 5. Fire-fighting Measures

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5.1. Extinguishing media

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

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

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

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

## 6. Accidental Release Measures

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

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available

## 7. Handling and Storage

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

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours.

Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls and personal protection

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

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or face shield

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

## 9. Physical and chemical properties

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

Odour threshold : No data available

pH : 3 at 10 g/l at 20 °C

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Relative evaporation rate (butylacetate=1) : No data available

Melting point : -6 - -3 °C

Freezing point : No data available

Boiling point : 162 °C

Flash point : 72 °C

Auto-ignition temperature : 440 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 0.57 hPa at 20 °C

Relative vapour density at 20 °C : 3.04

Relative density : No data available

Density : 0.964 g/cm<sup>3</sup>

Solubility : Water: Soluble in water

Log Pow : 0.79

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 0.02 - 0.1 vol %

## 9.2. Other information

No additional information available

## 10. Stability and reactivity

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### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

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## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

# 11. Toxicological information

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

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 3 at 10 g/l at 20 °C

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 3 at 10 g/l at 20 °C

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

# 12. Ecological information

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## 12.1. Toxicity

No additional information available

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

Log Pow 0.79 1

## 2.4. Mobility in soil

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No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information availabl

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## 13. Disposal considerations

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#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

## 14. Transport information

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In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 2820

UN-No. (IMDG) : 2820

UN-No.(IATA) : 2820

UN-No.(ADN) : Not regulated

UN-No. (RID) : Not regulated

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : BUTYRIC ACID

Proper Shipping Name (IMDG) : BUTYRIC ACID

Proper Shipping Name (IATA) : BUTYRIC ACID

Proper Shipping Name (ADN) : Not regulated

Proper Shipping Name (RID) : Not regulated

Transport document description (ADR) : UN 2820 BUTYRIC ACID, 8, III, (E)

Transport document description (IMDG) : UN 2820 BUTYRIC ACID, 8, III

Transport document description (IATA) : UN 2820 BUTYRIC ACID, 8, III

#### 14.3. Transport hazard class(es)

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ADR- Transport hazard class(es) (ADR) : 8

Danger labels (ADR) : 8

IMDG- Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8

IATA- Transport hazard class(es) (IATA) : 8

Hazard labels (IATA) : 8

ADN- Transport hazard class(es) (ADN) : Not regulated

RID- Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : Not regulated

Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport- Classification code (ADR) : C3

Limited quantities (ADR) : 5L

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions (ADR) : TP1

Tank code (ADR) : L4BN Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage ☒ Packages (ADR) : V12

Hazard identification number (Kemler No.) : 80

Orange plates : Tunnel restriction code (ADR) : E

EAC code : ☒2X

Transport by sea- Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

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Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC0

3 Tank instructions (IMDG) : T4 T

ank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-B

Stowage category (IMDG) : A

Stowage and handling (IMDG) : SW1, H2

MFAG-No : 153

Air transport- PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y841

PCA limited quantity max net quantity (IATA) : 1L

PCA packing instructions (IATA) : 852

PCA max net quantity (IATA) : 5L

CAO packing instructions (IATA) : 856

CAO max net quantity (IATA) : 60L

ERG code (IATA) : 8L

Inland waterway transport- Not regulated

Rail transport- Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## 15. Regulatory information

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

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

n-BUTYRIC ACID FOR SYNTHESIS is not on the REACH Candidate List

n-BUTYRIC ACID FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to

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water (Classification according to VwVwS, Annex 2; WGK No 41)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice;

Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

## 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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