

1. Product and Company Identification

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Product Name RXSOL-60-6604-442
Product Type DIETHYL CARBONATE FOR SYNTHESIS 99%
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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3.1. Substances: DIETHYL CARBONATE FOR SYNTHESIS

CAS-No. : 105-58-8

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

Flammable liquids, H226

Category 3

Serious eye damage/eye irritation, H319

Category 2

Skin corrosion/irritation, H315

Category 2

Specific target organ toxicity ☑ Single exposure, H335

Category 3,

Respiratory tract irritation Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Extra labelling to display
Extra classification(s) to display

Symbol(s) : Xi : Irritation Highly flammable.

R Phrase(s) : R36/37/38: Irritating to eyes,
respiratory system and skin. R10: Flammable.

Hazard pictograms :

Signal word :Warning

Hazard statements : H226 -

Flammable liquid and vapour. H315 -

Causes skin irritation. H319 -

Causes serious eye irritation. H335 -

May cause respiratory irritation.

Precautionary statements : P261 -

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

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

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

3.3. Other hazards

No additional information available

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4. First Aid Measures

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4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/ .

Wash contaminated clothing before reuse. Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting.

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

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes serious eye irritation.

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

Fire hazard : Flammable liquid and vapour. Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

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

6. Accidental Release Measures

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6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges.

No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

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

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7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care

because residual vapours are flammable. Precautions for safe

handling : Avoid contact with skin and eyes. Take precautionary measures

against static discharge. Use only non-sparking tools. Keep away from sources

of ignition ☒ No smoking. Use only outdoors or in a well-ventilated area.

Do not breathe vapours. Hygiene measures : Wash hands and other

exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting

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

Incompatible materials : Heat sources.

7.3. Specific end use(s)

No additional information available

8. Exposure controls and personal protection

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8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] 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 : No data available

Relative evaporation rate

(butylacetate=1) : No data available

Melting point : -43 °C

Freezing point : No data available

Boiling point : 126 °C

Flash point : 25 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable

Flammable liquid and vapour.

Vapour pressure : 1.4

kPa (at 25°C) Relative vapour density at 20 °C : 4.07

Relative density : No data available

Density : 0.9752 g/cm³

Solubility : Water: Insoluble in water

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

10. Stability and reactivity

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10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous

decomposition products May release flammable gases.

11. Toxicological information

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11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes

skin irritation. Serious eye damage/irritation : Causes serious

eye irritation. Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respirator

y irritation. STOT-repeated exposure : Not classifie

d 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

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

13. Disposal considerations

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13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Additional information : Handle empty containers with care because residual vapours are flammable.

14. Transport information

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

14.1. UN number

UN-No. (ADR) : 2366

UN-No. (IMDG) : 2366

UN-No. (IATA) : 2366

UN-No. (ADN) : 2366

UN-No. (RID) : 2366

14.2. UN proper shipping name

Proper Shipping Name (ADR) : DIETHYL CARBONATE Proper Shipping Name

(IMDG) : DIETHYL CARBONATE Proper Shipping Name (IATA) : Diethyl carbonate Proper Shipping Name

(ADN) : DIETHYL CARBONATE Proper Shipping Name (RID) : DIETHYL CARBONATE Transport document description

(ADR) : UN 2366 DIETHYL CARBONATE, 3, III, (D/E)

Transport document description (IMDG) : UN 2366

DIETHYL CARBONATE, 3, III

(25°C c.c.) Transport document description (IATA) : UN 2366 Diethyl carbonate, 3, III

Transport document description (ADN) : UN 2366 DIETHYL CARBONATE, 3, III

Transport document description (RID) : UN 2366 DIETHYL CARBONATE, 3, III

14.3. Transport hazard class(es)

ADR- Transport hazard class(es) (ADR) : 3

Danger labels (ADR) : 3

IMDG- Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3

IATA- Transport hazard class(es) (IATA) : 3

Hazard labels (IATA) : 3

ADN- Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3

RID- Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3

14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

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) : F1

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

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

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T2

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

Tank code (ADR) : LGBF Vehicle for tank carriage : FL

Transport category (ADR) : 3

Special provisions for carriage ☒ Packages (ADR) : V12

Special provisions for carriage ☒ Operation (ADR) : S2

Hazard identification number (Kemler No.) : 30

Orange plates : Tunnel restriction code (ADR) : D/E

EAC code : 3Y

Transport by sea-

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

Stowage category (IMDG) : A

Flash point (IMDG) : 25°C to 31°C c.c.

Properties and observations (IMDG) : Colourless liquid.

Flashpoint: 25°C to 31°C c.c.

Vapour much heavier than air (4.1).

Immiscible with water. Irritating to skin,
eyes and mucous membranes.

MFAG-No : 128

Air transport-

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y344

PCA limited quantity max net quantity (IATA) : 10L

PCA packing instructions (IATA) : 355

PCA max net quantity (IATA) : 60L

CAO packing instructions (IATA) : 366

CAO max net quantity (IATA) : 220L

ERG code (IATA) : 3L

Inland waterway transport-

Classification code (ADN) : F1

Limited quantities (ADN) : 5L

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

Rail transport-

Classification code (RID) : F1

Excepted quantities (RID) : E1

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

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T2

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

Tank codes for RID tanks (RID) : LGBF Transport category (RID) : 3

Special provisions for carriage ☒ Packages (RID) : W12

Colis express (express parcels) (RID) : CE4

Hazard identification number (RID) : 30

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

Not applicable

15. Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions DIETHYL CARBONATE FOR SYNTHESIS is not on the

REACH Candidate List DIETHYL CARBONATE FOR SYNTHESIS is not on the

REACH Annex XIV List

15.1.2. National regulations

Germany Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID No. 2559)

12th Ordinance Implementing the Federal

Immission

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

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen ☒ Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen ☒ Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen ☒ Ontwikkeling : The substance is not listed

Denmark

Class for fire hazard : Class II-1 Store unit : 5

liter Classification remarks : R10 ; 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

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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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