

1. Product and Company Identification

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Product Name RXSOL-60-6604-748
Product Type iso-BUTYL ACETATE FOR SYNTHESIS
Revised date

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Substance / Preparation : ISO BUTYL ACETATE

CAS No :110-19-0

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 : F; R11 R66

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

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) : F : Highly flammable

R Phrase(s) : R11 : Highly flammable.

R66 : Repeated exposure may cause skin dryness or cracking.

S Phrase(s) : S16 : Keep away from sources of ignition - No smoking.

S23 : Do not breathe the gas, fumes, vapours, spray.

S25 : Avoid contact with eyes.

S29 : Do not empty into drains.

S33 : Take precautionary measures against static discharges.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

Signal words : Danger

Hazard statements : H225 : Highly flammable liquid and vapour.

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.

P233: Keep container tightly closed.

☒ Response : P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing.

Rinse skin with water/shower. P370+P378: In case of fire: Use for extinction.

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

☒ 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 : Assure fresh air breathing. Allow the victim to rest.

Skin contact : Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain,

blinking or redness persist. Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

Symptoms relating to use : 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

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 : Wash hands and other exposed areas with mild soap

and water before eat, drink or smoke and when leaving work.

Handle empty containers with care because residual vapours are flammable.

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.

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 : Wear approved mask.

☑ 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

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] : -78 °C

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : 421 °C

Flammability (solid, gas) : Highly flammable liquid and vapour.

Flammable. Flash point [°C] : 23 °C

Boiling point [°C] : 124 - 126 °C

Initial boiling point [°C] : 124°C

Final boiling point [°C] : 126 °C

Evaporation rate : 1,5

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

Vapour pressure mm/Hg : N/A

Vapour density : 4 Density [g/cm³] : 0,871

Relative density, gas (air=1) : 4,01

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

Solubility in water [% weight] : Partially soluble.

Solubility in water : N/A

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

Solubility : 7 Viscosity at 40°C [mm²/s] : N/A

9.2. Other information

Explosive properties : N/A

Explosion limits - upper [%] : 7,60%

Explosion limits - lower [%] : 1,70%

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. Toxicological information

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11.1. Information on toxicological effects Acute toxicity

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

☒ 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 : 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

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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

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

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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 : ISOBUTYL ACETATE

UN N° : 1213

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.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : ISOBUTYL ACETATE

UN N° : 1213

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 : ISOBUTYL ACETATE

UN N° : 1213

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

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

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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 DISCLAIMER OF LIABILITY The information in this SDS

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