

1. Product and Company Identification

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Product Name RXSOL-60-6604-458
Product Type Di (2) iso (2) PROPYL ETHER AR)
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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2.1. Substance : DI-iso-PROPYL ETHER AR CAS

No : 108-20-3

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, H225

Category 2

Specific target organ toxicity (2) Single exposure, H336

Category 3

, Narcosis

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

displayExtra classification(s) to display

Symbol(s) : Xn: Harmful

Highly flammable

Explosive

. R Phrase(s) : R11: Highly flammable.

R19: May form explosive peroxides.

R66: Repeated Exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

S Phrase(s) : S9: keep container in a well ventilated place

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

S29: Do not empty into drains.

S33: Take precautionary measures against static discharges.

Hazard pictograms

Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapour

H336 - May cause drowsiness or dizziness

Precautionary statements : P210 - Keep away from heat/sparks/open flames/hot

surfaces. - No smoking

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

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.

Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do

. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/injuries after inhalation : May cause drowsiness or dizziness

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

Treat symptomatically

.

5. Fire-fighting Measures

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5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable extinguishing media : Do not use a heavy water stream

. 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour

. Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. May form explosive peroxides.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment

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 naked lights. No smoking

. 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Avoid breathing dust/fume/gas/mist/vapours/spray.

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. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

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.

Hazardous waste due to potential risk of explosion.

Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well ventilated area.

Keep away from sources of ignition - No smoking.

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

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 in fireproof place. Keep container tightly closed

. Incompatible products : Oxidizing agent.

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 : 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) : 8

Melting point : -85 °C

Freezing point : No data available

Boiling point : 65 - 70

Flash point : -29 °C

Auto-ignition temperature : 4430 °C

Decomposition temperature : No data available

Flammability (solid, gas) :

Flammable Highly flammable liquid and vapour

Vapour pressure : 119 mm Hg at 20C

Relative vapour density at 20 °C : 3.5

Relative density : 0.73

Density : 0.78 g/cm³

Solubility : Water: 0.2 g/100ml @ 20°C

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : May form explosive peroxides.

Oxidising properties : No data available

Explosive limits : 0.01 - 0.21 vol %

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

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

10.4. Conditions to avoid

Open flame. Direct sunlight. Heat. Sparks. Overheating.

10.5. Incompatible materials Oxidizing agent.

10.6. Hazardous decomposition products

May release flammable gases. May form explosive peroxides.

11. Toxicological information

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11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

Additional information : Repeated exposure may cause skin dryness or cracking

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

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

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 ...

Additional information : Handle empty containers with care because residual vapours are

flammable

. Hazardous waste due to potential risk of explosion.

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

14.1. UN number

UN-No. (ADR) : 1159

UN-No. (IMDG) : 1159

UN-No.(IATA) : 1159

UN-No.(ADN) : 1159

UN-No. (RID) : 1159

14.2. UN proper shipping name

Proper Shipping Name (ADR) : DIISOPROPYL ETHER

Proper Shipping Name (IMDG) : DIISOPROPYL ETHER

Proper Shipping Name (IATA) : DIISOPROPYL ETHER

Proper Shipping Name (ADN) : DIISOPROPYL ETHER

Proper Shipping Name (RID) : DIISOPROPYL ETHER

Transport document description (ADR) : UN 1159 DIISOPROPYL ETHER, 3, II, (D/E)

Transport document description (IMDG) : UN 1159 DIISOPROPYL ETHER, 3, II (

- 29°C c.c.)

Transport document description (IATA) : UN 1159 DIISOPROPYL ETHER, 3, II

Transport document description (ADN) : UN 1159 DIISOPROPYL ETHER, 3, II

Transport document description (RID) : UN 1159 DIISOPROPYL ETHER, 3, II

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) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

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) : 1L

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, 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) : LGBF

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage ☐ Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 33

Orange plates :

Tunnel restriction code (ADR) : D/E

EAC code : 3YE

Transport by sea- Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

Stowage category (IMDG) : E

Stowage and handling (IMDG) : SW2

Flash point (IMDG) : -29°C c.c.

MFAG-No : 127

Air transport- PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y341

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

PCA packing instructions (IATA) : 353

PCA max net quantity (IATA) : 5L

CAO packing instructions (IATA) : 364

CAO max net quantity (IATA) : 60L

ERG code (IATA) : 3H

Inland waterway transport- Classification code (ADN) : F1

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

Rail transport- Classification code (RID) : F1

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T4

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

Tank codes for RID tanks (RID) : LGBF

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE7

Hazard identification number (RID) : 33

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

Not applicable

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

DI-iso-PROPYL ETHER AR is not on the REACH Candidate List

DI-iso-PROPYL ETHER AR is not on the REACH Annex XIV Lis

t 15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 598)

12th Ordinance Implementing the Federal

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

Denmark

Classification remarks : 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

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