

1. Product and Company Identification

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Product Name RXSOL-60-6605-027
Product Type N,N-DIISOPROPYL ETHYLAMINE 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

Phone +91 22 27815541 / 42
Fax +91 22 2781 1318 :::AOH :0091 9821214367
Email mail@rxmarine.com

2. Composition / Information on ingredients

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2.1. Substance: N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS

CAS No : 7087- 68- 5

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 Acute toxicity (oral), H301

Category 3

Skin corrosion/irritation, H314

Category 1B

Hazardous to the aquatic environment ☑ Chronic Hazard, H412

Category 3

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

No additional information available

3.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display
displayExtra classification(s) to display

Symbol(s) : Highly flammable

C: Corrosive

R Phrase(s) : R11: Highly flammable.

R22: Harmful if swallowed.

R34: Cause burns.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the
aquatic environment.

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

S26: In the case of contact with eyes, rinse immediately with plenty of water and seek
medical advise.

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

S61: avoid release to the environment . refer to special instruction/safety data sheets.

S36/37/39 : Wear suitable protective clothing and gloves & eye/face protecting.

Hazard pictograms

Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapour

H301 - Toxic if swallowed

H314 - Causes severe skin burns and eye damage

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements : P210 - Keep away from heat, hot surfaces, sparks, open
flames and other ignition

sources. No smoking

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection, face protection

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/

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

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

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 affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. 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.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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 : 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 : Highly 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 naked lights. 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. Use only non-sparking tools. Keep away from sources of ignition - No smoking. Do not breathe vapours.

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

Hygiene measures : Do not eat, drink or smoke when using this product. 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. Comply with applicable regulations.

Storage conditions : Keep in fireproof place. Keep container tightly closed.

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 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 : 12.3

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

Melting point : -50 °C

Freezing point : No data available

Boiling point : 127 °C

Flash point : 10.6 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable

Highly flammable liquid and vapour

Vapour pressure : 16 hPa at 20 °C

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 0.742 g/cm³

Solubility : No data available

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 : 0.007 - 0.063 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

Open flame. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

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11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed.

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

pH: 12.3

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

pH: 12.3

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

Potential adverse human health effects and symptoms : Harmful if swallowed.

12. Ecological information

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12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and degradability May cause long-term adverse effects in the environment.

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.

14. Transport information

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

14.1. UN number

UN-No. (ADR) : 2733

UN-No. (IMDG) : 2733

UN-No.(IATA) : 2733

UN-No.(ADN) : 2733

UN-No. (RID) : 2733

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AMINES, FLAMMABLE, CORROSIVE, N.O.S. /

POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.

Proper Shipping Name (IMDG) : AMINES, FLAMMABLE, CORROSIVE, N.O.S.

Proper Shipping Name (IATA) : AMINES, FLAMMABLE, CORROSIVE, N.O.S.

Proper Shipping Name (ADN) : AMINES, FLAMMABLE, CORROSIVE, N.O.S.

Proper Shipping Name (RID) : AMINES, FLAMMABLE, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 2733 AMINES, FLAMMABLE,
CORROSIVE, N.O.S. / POLYAMINES,
FLAMMABLE, CORROSIVE, N.O.S., 3 (8), II, (D/E)

Transport document description (IMDG) : UN 2733 AMINES, FLAMMABLE,
CORROSIVE, N.O.S., 3 (8), II

Transport document description (IATA) : UN 2733 AMINES, FLAMMABLE,
CORROSIVE, N.O.S., 3 (8), II

Transport document description (ADN) : UN 2733 AMINES, FLAMMABLE,
CORROSIVE, N.O.S., 3 (8), II

Transport document description (RID) : UN 2733 AMINES, FLAMMABLE,
CORROSIVE, N.O.S., 3 (8), II

14.3. Transport hazard class(es)

ADR- Transport hazard class(es) (ADR) : 3 (8)

Danger labels (ADR) : 3, 8

IMDG- Transport hazard class(es) (IMDG) : 3 (8)

Danger labels (IMDG) : 3, 8

IATA- Transport hazard class(es) (IATA) : 3 (8)

Hazard labels (IATA) : 3, 8

ADN- Transport hazard class(es) (ADN) : 3 (8)

Danger labels (ADN) : 3, 8

RID- Transport hazard class(es) (RID) : 3 (8)

Danger labels (RID) : 3, 8

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) : FC

Special provision (ADR) : 274, 544

Limited quantities (ADR) : 1L

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T11

Portable tank and bulk container special provisions (ADR) : TP1, TP27

Tank code (ADR) : L4BH

Vehicle for tank carriage : FL

Transport category (ADR) : 2

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

Hazard identification number (Kemler No.) : 338

Orange plates :

Tunnel restriction code (ADR) : D/E

EAC code : ☐2WE

APP code : A(fl)

Transport by sea- Special provision (IMDG) : 274

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T11

Tank special provisions (IMDG) : TP1, TP27

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-C

Stowage category (IMDG) : B

Stowage and handling (IMDG) : SW2

Segregation (IMDG) : SG35

MFAG-No : 132

Air transport- PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y340

PCA limited quantity max net quantity (IATA) : 0.5L

PCA packing instructions (IATA) : 352

PCA max net quantity (IATA) : 1L

CAO packing instructions (IATA) : 363

CAO max net quantity (IATA) : 5L

Special provision (IATA) : A3

ERG code (IATA) : 3C

Inland waterway transport- Classification code (ADN) : FC

Special provisions (ADN) : 274, 544

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

Rail transport- Classification code (RID) : FC

Special provision (RID) : 274, 544

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T11

Portable tank and bulk container special provisions (RID) : TP1, TP27

Tank codes for RID tanks (RID) : L4BH

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE7

Hazard identification number (RID) : 338

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

N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS is not on the REACH

Candidate List

N,N-DIISOPROPYLETHYLAMINE FOR SYNTHESIS is not on the REACH Annex

XIV List

15.1.2. National regulations

Germany

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 I-1

Store unit : 1 liter

Classification remarks : F ; 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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