

1. Product and Company Identification

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Product Name RXSOL-60-6604-468
Product Type DIMETHYL SULPHATE
Revised date

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / Information on ingredients

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2.1. Substance : DIMETHYL SULPHATE

CAS No : 77-78-1

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]

Acute toxicity (oral), H301

Category 3

Acute toxicity (inhal.), H330

Category 2

Skin corrosion/irritation, H314

Category 1B

Sensitisation Skin, H317

category 1

Germ cell mutagenicity, H341

Category 2

Carcinogenicity, H35

Category 01B

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) : T : Very toxic

R Phrase(s) : R25: Toxic if swallowed.

R26: Very toxic by inhalation.

R34: Cause burns.

R45: May cause cancer.

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

S27: Take off immediately all contaminated clothing.

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

S53: Avoid exposure ☞ obtain special instruction before use.

Hazard pictograms :

Signal word : Danger

Hazard statements : H301 - Toxic if swallowed

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H330 - Fatal if inhaled

H341 - Suspected of causing genetic defects

H350 - May cause cancer

Precautionary statements : P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

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

P284 - [In case of inadequate ventilation] wear respiratory protection

P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or

doctor/physician

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

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex

XIII

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. Wash with plenty of soap and water. If skin irritation or rash occurs:

Get medical advice/attention. Specific treatment (see ... on this label). Wash contaminated clothing before reuse.

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. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see ... on this label). Do NOT induce vomiting.

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

Symptoms/injuries : Causes severe skin burns and eye damage. Suspected of causing genetic defects. May cause cancer.

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

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

Symptoms/injuries after ingestion : Toxic if swallowed. 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 : 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

No additional information available

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

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 : Stop release.

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

Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.

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 : No data available

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

Melting point : -32 °C

Freezing point : No data available

Boiling point : 188 °C

Flash point : 830 °C

Auto-ignition temperature : 1880 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 0.5 mm Hg at 200C

Relative vapour density at 20 °C : 4.35

Relative density : No data available

Density : 1.3283 g/cm³

Solubility : Water: 2.8 g/100ml @180C

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

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

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

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11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Inhalation: Fatal if inhaled.

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

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

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : May cause cancer.

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 : Toxic if swallowed.

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

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex

XIII

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 ...

Ecology - waste materials : Hazardous waste due to toxicity.

14. Transport information

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

14.1. UN number

UN-No. (ADR) : 1595

UN-No. (IMDG) : 1595

UN-No.(IATA) : 1595

UN-No.(ADN) : 1595

UN-No. (RID) : 1595

14.2. UN proper shipping name

Proper Shipping Name (ADR) : DIMETHYL SULPHATE

Proper Shipping Name (IMDG) : DIMETHYL SULPHATE

Proper Shipping Name (IATA) : DIMETHYL SULPHATE

Proper Shipping Name (ADN) : DIMETHYL SULPHATE

Proper Shipping Name (RID) : DIMETHYL SULPHATE

Transport document description (ADR) : UN 1595 DIMETHYL SULPHATE, 6.1 (8), I,

(C/D)

Transport document description (IMDG) : UN 1595 DIMETHYL SULPHATE, 6.1 (8), I

Transport document description (IATA) : UN 1595 DIMETHYL SULPHATE, 6.1, I

Transport document description (ADN) : UN 1595 DIMETHYL SULPHATE, 6.1 (8), I

Transport document description (RID) : UN 1595 DIMETHYL SULPHATE, 6.1 (8), I

14.3. Transport hazard class(es)

ADR- Transport hazard class(es) (ADR) : 6.1

(8) Danger labels (ADR) : 6.1,

8 IMDG- Transport hazard class(es) (IMDG) : 6.1

(8) Danger labels (IMDG) : 6.1,

8 IATA- Transport hazard class(es) (IATA) : 6.1

(8) Hazard labels (IATA) : 6.1,

8 ADN- Transport hazard class(es) (ADN) : 6.1

(8) Danger labels (ADN) : 6.1,

8 RID- Transport hazard class(es) (RID) : 6.1

(8) Danger labels (RID) : 6.1,

8 14.4. Packing group

Packing group (ADR) : I

Packing group (IMDG) : I

Packing group (IATA) : I

Packing group (ADN) : I

Packing group (RID) : I

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) : TC1

Special provision (ADR) : 354

Limited quantities (ADR) : 0

Excepted quantities (ADR) : E0

Packing instructions (ADR) : P602

Mixed packing provisions (ADR) : MP8, MP17

Portable tank and bulk container instructions (ADR) : T20

Portable tank and bulk container special provisions (ADR) : TP2, TP35

Tank code (ADR) : L10CH

Tank special provisions (ADR) : TU14, TU15, TE19, TE21

Vehicle for tank carriage : AT

Transport category (ADR) : 1

Special provisions for carriage - Loading, unloading and handling (ADR) : CV1, CV13,
CV28

Special provisions for carriage ☒ Operation (ADR) : S9, S14

Hazard identification number (Kemler No.) : 668

Orange plates :

Tunnel restriction code (ADR) : C/D

EAC code : ☒3XE

APP code : B

Transport by sea- Special provision (IMDG) : 354

Limited quantities (IMDG) : 0

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P602

Tank instructions (IMDG) : T20

Tank special provisions (IMDG) : TP2, TP13, TP35

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-B

Stowage category (IMDG) : D

Stowage and handling (IMDG) : SW2

MFAG-No : 156

Air transport- PCA Limited quantities (IATA) : Forbidden

PCA limited quantity max net quantity (IATA) : Forbidden

PCA packing instructions (IATA) : Forbidden

PCA max net quantity (IATA) : Forbidden

CAO packing instructions (IATA) : Forbidden

CAO max net quantity (IATA) : Forbidden

ERG code (IATA) : 6C

Inland waterway transport- Classification code (ADN) : TC1

Special provisions (ADN) : 354, 802

Limited quantities (ADN) : 0

Excepted quantities (ADN) : E0

Carriage permitted (ADN) : T

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

Ventilation (ADN) : VE02

Number of blue cones/lights (ADN) : 2

Rail transport- Classification code (RID) : TC1

Special provision (RID) : 354

Limited quantities (RID) : 0

Excepted quantities (RID) : E0

Packing instructions (RID) : P602

Mixed packing provisions (RID) : MP8, MP17

Portable tank and bulk container instructions (RID) : T20

Portable tank and bulk container special provisions (RID) : TP2, TP35

Tank codes for RID tanks (RID) : L10CH

Special provisions for RID tanks (RID) : TU14, TU15, TU38, TE21, TE22

Transport category (RID) : 1

Special provisions for carriage ☑ Loading and unloading (RID) : CW13, CW28, CW31

Hazard identification number (RID) : 668

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

Dimethyl sulphate is on the REACH Candidate List

DIMETHYL SULPHATE is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 734)

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

Denmark

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

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

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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