

1. Product and Company Identification

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Product Name RXSOL-60-6604-546
Product Type EPICHLOROHYDRIN 98.5%
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, Nairobi

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2. Composition / Information on ingredients

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2.1. Substances: EPICHLOROHYDRIN FOR SYNTHESIS

CAS-No. : 106-89-8

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]

Carcinogenicity, H350

Category 1B

Acute toxicity (dermal), H311

Category 3

Acute toxicity (inhal.), H331

Category 3

Acute toxicity (oral), H301

Category 3

Skin corrosion/irritation, H314

Category 1B

Serious eye damage/eye irritation, H318

Category 1

Flammable liquids, H226

Category 3

Skin sensitisation, H317

Category 1

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

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 display
Extra classification(s) to display

Symbol(s) : T : Very toxic

Highly flammable C: Corrosive

Xn: Harmful

R Phrase(s) : R45: May cause cancer.

R10: Flammable.

R34: Cause burns.

R43: May cause sensitization by skin contact.

R23/24/25: Toxic by Inhalation, in contact with skin and if swallowed.

S Phrase(s) : S53: Avoid exposure ☞ obtain special instruction before use.

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

Hazard pictograms :

Signal word : Danger

Hazard statements : H226 - Flammable liquid and vapour.

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

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.

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.

P310 - Immediately call a POISON CENTER/doctor

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 person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing.

Rinse skin with water/shower.

Immediately call a POISON CENTER/doctor. Wash with plenty of water/ . Specific measures (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see supplemental first aid instruction on this label).

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/doctor.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label).

Do NOT induce vomiting.

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

Symptoms/effects : Causes severe skin burns and eye damage. May cause cancer.

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

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.

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

Symptoms/effects 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

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

No additional information available

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 : 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

7. Handling and Storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. 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 hands, forearms and face 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 : 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 container tightly closed. Store in original container. Store in a dry place. Protect from moisture.

Incompatible materials : Heat sources.

7.3. Specific end use(s)

No additional information available

8. Exposure controls and personal protection

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 : [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 : -57 °C

Freezing point : No data available

Boiling point : 115 - 117

Flash point : 32 °C

Auto-ignition temperature : 4160 °C

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour.

Vapour pressure : 12.5 mm Hg at 20°C

Relative vapour density at 20 °C : 3.3

Relative density : No data available

Density : 1.18 g/cm³

Solubility : Water: Moderate (1-10%)

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 : 0.038 - 0.21 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

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

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. 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 : Dermal: Toxic in contact with skin.

Inhalation: Toxic if inhaled. Oral: Toxic if swallowed.

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

Serious eye damage/irritation : Causes serious eye damage.

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

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Toxic if swallowed. Toxic in contact with skin.

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.

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) : 2023

UN-No. (IMDG) : 2023

UN-No. (IATA) : 2023

UN-No. (ADN) : 2023

UN-No. (RID) : 2023

14.2. UN proper shipping name

Proper Shipping Name (ADR) : EPICHLOROHYDRIN

Proper Shipping Name (IMDG) : EPICHLOROHYDRIN

Proper Shipping Name (IATA) : Epichlorohydrin

Proper Shipping Name (ADN) : EPICHLOROHYDRIN

Proper Shipping Name (RID) : EPICHLOROHYDRIN

Transport document description (ADR) : UN 2023 EPICHLOROHYDRIN, 6.1 (3), II,
(D/E)

Transport document description (IMDG) : UN 2023 EPICHLOROHYDRIN, 6.1 (3), II,
MARINE POLLUTANT (32°C c.c.)

Transport document description (IATA) : UN 2023 Epichlorohydrin, 6.1, II

Transport document description (ADN) : UN 2023 EPICHLOROHYDRIN, 6.1 (3), II

Transport document description (RID) : UN 2023 EPICHLOROHYDRIN, 6.1 (3), II

14.3. Transport hazard class(es)

ADR- Transport hazard class(es) (ADR) : 6.1 (3)

Danger labels (ADR) : 6.1, 3

IMDG- Transport hazard class(es) (IMDG) : 6.1 (3)

Danger labels (IMDG) : 6.1, 3

IATA- Transport hazard class(es) (IATA) : 6.1 (3)

Hazard labels (IATA) : 6.1, 3

ADN- Transport hazard class(es) (ADN) : 6.1 (3)

Danger labels (ADN) : 6.1, 3

RID- Transport hazard class(es) (RID) : 6.1 (3)

Danger labels (RID) : 6.1, 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 : Yes (IMDG only)

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport- Classification code (ADR) : TF1

Special provisions (ADR) : 279

Limited quantities (ADR) : 100ml

Excepted quantities (ADR) : E4

Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : MP15

Portable tank and bulk container instructions (ADR) : T7

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

Tank code (ADR) : L4BH Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : FL Transport category (ADR) : 2

Special provisions for carriage - Loading,

unloading and handling (ADR) : CV13, CV28

Special provisions for carriage Operation (ADR) : S2, S9, S19

Hazard identification number (Kemler No.) : 63

Orange plates :

Tunnel restriction code (ADR) : D/E

EAC code : 3W

APP code : A(fl)

Transport by sea- Special provisions (IMDG) : 279

Limited quantities (IMDG) : 100 ml

Excepted quantities (IMDG) : E4

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP2, TP13

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

Stowage category (IMDG) : A

Stowage and handling (IMDG) : SW2

Flash point (IMDG) : approximately 32°C c.c.

MFAG-No : 131P

Air transport- PCA Excepted quantities (IATA) : E4

PCA Limited quantities (IATA) : Y641

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

PCA packing instructions (IATA) : 654

PCA max net quantity (IATA) : 5L

CAO packing instructions (IATA) : 662

CAO max net quantity (IATA) : 60L

Special provisions (IATA) : A113

ERG code (IATA) : 6F

Inland waterway transport- Classification code (ADN) : TF1

Special provisions (ADN) : 279, 802

Limited quantities (ADN) : 100 ml

Excepted quantities (ADN) : E4

Carriage permitted (ADN) : T

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

Ventilation (ADN) : VE01, VE02

Number of blue cones/lights (ADN) : 2

Rail transport- Classification code (RID) : TF1

Special provisions (RID) : 279

Limited quantities (RID) : 100ml

Excepted quantities (RID) : E4

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15

Portable tank and bulk container instructions (RID) : T7

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

Tank codes for RID tanks (RID) : L4BH

Special provisions for RID tanks (RID) : TU15

Transport category (RID) : 2

Special provisions for carriage - Loading,

unloading and handling (RID) : CW13, CW28, CW31

Colis express (express parcels) (RID) : CE5

Hazard identification number (RID) : 63

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

EPICHLOROHYDRIN AR is not on the REACH Candidate List

EPICHLOROHYDRIN AR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV; ID No. 92)

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 : EPICHLOROHYDRIN FOR SYNTHESIS is 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

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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