Material Safety Data Sheet

BENZALKONIUM CHLORIDE 50% SOLUTION PURE (RXSOL-60-6604-036)

1. Product and Company Identifaction

Product Name	RXSOL-60-6604-036
Product Type	BENZALKONIUM CHLORIDE 50% AQUEOUS SOLUTION
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

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2. Composition / informationon ingredients

3.1. Substances Not applicable
3.2. Mixtures

Substance name	Contents	CAS No
BENZALKONIUM CHLORIDE	49.5 - 50.5	63449- 41- 2
WATER	50 - 50.5	7732-18-5

3. Hazards Identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008
[CLP]Mixtures/Substances: SDS EU 2015: According to
Regulation (EU) 2015/830 (REACH Annex II)
Acute toxicity (oral),
Category 4
H302 Skin corrosion/irritation,
Category 1 H314
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400

Adverse physicochemical, human health and environmental effects
2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Extra labelling to display Extra classification(s) to display
Symbol(s) : Xn: Harmful
C: Corrosive
N : Dangerous for the environment

R Phrase(s) : R21/22 : Harmful in contact with skin and if swallowed.
R34 : Cause burns.
R50 : Very toxic to aquatic organisms.
S Phrase(s) : S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
S36/37/39: Wear suitable protective clothing and gloves & eye/face protecting.
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.
Hazard pictograms :
GHS05 GHS07 GHS09



Signal word (CLP) : Danger
Hazard statements (CLP) : H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H400 - Very toxic to aquatic life.
Precautionary statements (CLP) : P260 - Do not breathe
dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated
clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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
2.3. Other hazards
No additional information available

4. First Aid Measures

4.1. Description of first aid measures First-aid measures

after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation or

rash occurs: Get medical

advice/attention.

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/effects : Causes severe skin burns and eye damage.

Symptoms/effects after ingestion : Harmful if swallowed.

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

Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media
Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon
dioxide (CO2).
Unsuitable extinguishing media : Do not use extinguishing media containing water.
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

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures : Avoid contact with skin, eyes and clothing.
6.1.2. For emergency responders
Protective equipment : Use personal protective equipment as required.
6.2. Environmental precautions
Avoid release to the environment.
6.3. Methods and material for containment and cleaning up
Methods for cleaning up : Clean contaminated surfaces with an excess of water.
6.4. Reference to other sections
No additional information available

7. Handling and Storage

7.1. Precautions for safe handling
Precautions for safe handling : Avoid contact with skin and eyes.
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
Storage conditions : Store in a well-ventilated place. Keep container tightly closed.
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 safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection.

9. Physical and chemical properties

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 : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
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 : No data available
9.2. Other information
No additional information available

10. Stability and reactivity

10.1. Reactivity
No additional information available
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.

10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
No additional information available

11. Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Oral: Harmful if swallowed.
ATE CLP (oral) 500 mg/kg bodyweight
Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Serious eye damage, category 1, implicit
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

12. Ecological information

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

13.1. Waste treatment methods
No additional information available

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN
14.1. UN number
UN-No. (ADR) : 3265
UN-No. (IMDG) : 3265
UN-No. (IATA) : 3265
UN-No. (ADN) : 3265
UN-No. (RID) : 3265
14.2. UN proper shipping name
Proper Shipping Name (ADR) : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (IMDG) : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (IATA) : Corrosive liquid, acidic, organic, n.o.s.
Proper Shipping Name (ADN) : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (RID) : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Transport document description (ADR) : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG) : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA) : UN 3265 Corrosive liquid, acidic, organic, n.o.s., 8, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN) : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID) : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)

ADR: Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8
IMDG :Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8
IATA :Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8
ADN:Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8
RID :Transport hazard class(es) (RID) : 8
Danger labels (RID) : 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 : Yes
Marine pollutant : Yes
Other information : No supplementary information available
14.6. Special precautions for user
- Overland transport
Classification code (ADR) : C3
Special provisions (ADR) : 274
Limited quantities (ADR) : 1l
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container
instructions (ADR) : T11
Portable tank and bulk container special
provisions (ADR) : TP2, TP27
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2 Hazard identification number (Kemler No.) : 80
Orange plates :
Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B
- Transport by sea
Special provisions (IMDG) : 274
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T11
Tank special provisions (IMDG) : TP2, TP27
EmS-No. (Fire) : F-A
EmS-No .(Spillage) : S-B
Stowage category (IMDG) : B
Stowage and handling (IMDG) : SW2
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.
- Air transport
PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity
(IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3, A803
ERG code (IATA) : 8L
- Inland waterway transport
Classification code (ADN) : C3
Special provisions (ADN) : 274
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0
- Rail transport
Classification code (RID) : C3
Special provisions (RID) : 274
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2
Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP15

Portable tank and bulk container
instructions (RID) : T11
Portable tank and bulk container special
provisions (RID) : TP2, TP27
Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : 80
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable
ADR - Packing instructions : P001
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 : ACETIC ACID,
UN N° : 2789
IMO-IMDG - Class or division : 8 : Corrosive substance. (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-C
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : ACETIC ACID
UN N° : 2789
IATA - Class or division : 8 : Corrosive substance. (3 : Flammable liquid.)
IATA - Packing group : II
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing : 851
instruction
- Passenger and Cargo - Maximum : 1 L
Quantity/Packing
IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 855
- Cargo only - Maximum Quantity/ : 30 L
Packing
IATA - Limited Quantites : 0.5 L
ERG-Nr : 8F

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list Contains
no REACH Annex XIV substances
15.1.2. National regulations
Germany
Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal
Immission Control Act - 12.BImSchV : Is not subject of the 12. BlmSchV (Hazardous
Incident Ordinance)
Netherlands
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding :
None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid :
None of the components are listed
NIET-limitatieve lijst van voor de
voortplanting giftige stoffen – Ontwikkeling :
None of the components are listed
Denmark
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

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.
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