Material Safety Data Sheet

TRICHLOROACETIC ACID AR 20% WV (RXSOL-60-6605-760)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-760
Product Type	TRICHLOROACETIC ACID AR 20% W/V
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
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Email	mail@rxmarine.com

2. Composition / informationon ingredients

2.1. Substance : Trichloroacetic Acid
CAS No : 76- 03- 9

Substance name	Contents	CAS No
Water	75 – 99	7732-18-5
Trichloroacetic acid	15 – 25	76-03-9

Substance.
Contains no other components or impurities which will influence the classification of the product.

3. Hazards Identification

3.1. Classification of the substance or mixture
Classification according to Directive 67/548/EEC or 1999/45/EC
C; R35 N; R51/53
Full text of R-phrases: see section 16
Adverse physicochemical, human health and environmental effects
No additional information available
3.2. Label elements
Labelling according to Directive 67/548/EEC or 1999/45/EC
Symbol(s): C: Corrosive
N : Dangerous for the environment
R Phrases : R35 - Causes severe burns
R50/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S Phrases : S24 - Avoid contact with skin
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 - After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer)
S35 - This material and its container must be disposed of in a safe way
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S57 - Use appropriate container to avoid environmental contamination
S59 - Refer to manufacturer/supplier for information on recovery/recycling
S60 - This material and its container must be disposed of as hazardous waste
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets
Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

3.3. Other hazards
No additional information available

4. First Aid Measures

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 withwater/shower. 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 presentand 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 inhalation : May cause respiratory irritation.
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 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

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

7.1. Precautions for safe handling
Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact duringpregnancy/while nursing.
Hygiene measures : Wash ... thoroughly after handling.
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

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

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 : 40 °C
Flash point : 110 °C
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
Density : 1.327 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 : No data available
9.2. Other information
No additional information available

10. Stability and reactivity

10.1. Reactivity
Thermal decomposition generates : Corrosive vapours.
10.2. Chemical stability
No additional information available
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified
Irritation : Not classified
Corrosivity : Causes severe burns.
Sensitisation : Not classified
Repeated dose toxicity : Not classified
Carcinogenicity : Not classified
Mutagenicity : Not classified
Toxicity for reproduction : Not classified

12. Ecological information

12.1. Toxicity
Ecology - water : Toxic 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

13.1. Waste treatment methods
Product/Packaging disposalrecommendations
: Dispose of contents/container to ...

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN
14.1. UN number
UN-No. (ADR) : 2564
UN-No. (IMDG) : 2564
UN-No.(IATA) : 2564
UN-No.(ADN) : 2564
UN-No. (RID) : 2564
14.2. UN proper shipping name
Proper Shipping Name (ADR) : TRICHLOROACETIC ACID SOLUTION
Proper Shipping Name (IMDG) : TRICHLOROACETIC ACID SOLUTION
Proper Shipping Name (IATA) : TRICHLOROACETIC ACID SOLUTION
Proper Shipping Name (ADN) : TRICHLOROACETIC ACID SOLUTION
Proper Shipping Name (RID) : TRICHLOROACETIC ACID SOLUTION
Transport document description (ADR) : UN 2564 TRICHLOROACETIC ACID SOLUTION, 8, II, (E), ENVIRONMENTALLYHAZARDOUS
Transport document description (IMDG) : UN 2564 TRICHLOROACETIC ACID SOLUTION, 8, II, MARINEPOLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA) : UN 2564 TRICHLOROACETIC ACID SOLUTION, 8, II, ENVIRONMENTALLYHAZARDOUS
Transport document description (ADN) : UN 2564 TRICHLOROACETIC ACID SOLUTION, 8, II, ENVIRONMENTALLYHAZARDOUS
Transport document description (RID) : UN 2564 TRICHLOROACETIC ACID SOLUTION, 8, II, ENVIRONMENTALLYHAZARDOUS
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
AND : 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: C3
Limited quantities: 1L
Excepted quantities: E2
Packing instructions: P001, IBC02
Mixed packing provisions: MP15
Portable tank and bulk container instructions : T7
Portable tank and bulk container special provisions : TP2
Tank code: L4BN Vehicle for tank carriage : AT

Transport category: 2
Hazard identification number (Kemler No.) : 80
Orange plates :
Tunnel restriction code: E
EAC code : 2X
- Transport by sea
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001 IBC
packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP2
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : B
MFAG-No : 153
- 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 provision (IATA) : A3
ERG code (IATA) : 8L
- Inland waterway
transport Classification code (ADN) : C3
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
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): T7
Portable tank and bulk container special provisions (RID): TP2
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

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
Contains no substances with Annex XVII restrictions
Contains no REACH candidate substance
Contains no REACH Annex XIV substances.
15.1.2. National regulations
Germany
AwSV/VwVwS Annex reference : Water hazard class (WGK) 2, 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. BImSchV (Hazardous Incident Ordinance)
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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