Material Safety Data Sheet

TRICHLORO ACETIC ACID ACS (RXSOL-60-6605-757)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-757
Product Type	TRICHLOROACETIC ACID ACS GRADE
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 / informationon ingredients

2.1. Substances: TRICHLOROACETIC ACID AR
CAS-No. : 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 Regulation (EC) No.
1272/2008 [CLP] Skin corrosion/irritation,
H314 Category 1A Hazardous to the aquatic
H410 environment — Chronic Hazard, Category 1 Full text of H statements : see section 16
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
C; R35 N; R50/53 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 Regulation (EC) No. 1272/2008
[CLP] Extra labelling to displayExtra classification(s) to display
Symbol(s): C: Corrosive N : Dangerous for the environment
R Phrase(s): R35:Cause severe burns. R50/53Very toxic to aquatic organisms,
may cause long-term adverse effect in the aquatic environment.
S Phrase(s):S24/25 : Avoid contact with skin and eyes.
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).
Hazard pictograms :

Signal word : Danger
Hazard statements : H314 - Causes severe skin burns and eye damage.
H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements : P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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 P501 - Dispose of contents/container to
hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
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 person to fresh air and keep comfortable for breathing.
Immediately call aPOISON 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.
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.
Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects : Causes severe skin burns and eye damage.
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 : Water spray.
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
No additional information available

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
Emergency procedures : Stop release.
6.2. Environmental precautions
Very toxic to aquatic life with long lasting effects.
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 : Do not breathe dust/fume/gas/mist/vapours/spray.
Avoid contact duringpregnancy/while nursing.
Hygiene measures : Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, including any incompatibilities
Storage conditions : Store in a well-ventilated place.
Keep container tightly closed. Store in a dry place.
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 : 1
Relative evaporation rate
(butylacetate=1) : No data available
Melting point : 54 - 58 °C
Freezing point : No data available
Boiling point : 196 °C
Flash point : > 113 °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 : 5.64
Relative density : No data available
Density : 1.6 g/cm³
Solubility : Water: Soluble in water
Log Pow : 1.645
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. Air contact. Moisture.
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 : Not classified
Skin corrosion/irritation : Causes severe
skin burns and eye damage. pH: 1 Serious
eye damage/irritation : Serious eye damage,
category 1, implicit pH: 1
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
Ecology - water : Very 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

Log Pow 1.645
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 hazardous or special waste collection point, inaccordance with local, regional, national and/or international regulation.

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN
14.1. UN number
UN-No. (ADR) : 1839
UN-No. (IMDG) : 1839
UN-No. (IATA) : 1839
UN-No. (ADN) : 1839
UN-No. (RID) : 1839
14.2. UN proper shipping name
Proper Shipping Name (ADR) : TRICHLOROACETIC ACID
Proper Shipping Name (IMDG) : TRICHLOROACETIC ACID, SOLID
Proper Shipping Name (IATA) : Trichloroacetic acid
Proper Shipping Name (ADN) : TRICHLOROACETIC ACID
Proper Shipping Name (RID) : TRICHLOROACETIC ACID
Transport document description (ADR) : UN 1839 TRICHLOROACETIC ACID, 8, II, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG) : UN 1839 TRICHLOROACETIC ACID, SOLID, 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA) : UN 1839 Trichloroacetic acid, 8, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN) : UN 1839 TRICHLOROACETIC ACID, 8, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID) : UN 1839 TRICHLOROACETIC ACID, 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
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 (ADR) : C4
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P002, IBC08
Special packing provisions (ADR) : B4
Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions (ADR): T3
Portable tank and bulk container special provisions (ADR): TP33
Tank code (ADR) : SGAN, L4BN

Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR): V11
Hazard identification number (Kemler No.) : 80
Orange plates :Tunnel restriction code (ADR) : E EAC
code : 2X -
Transport by sea
Packing instructions (IMDG) : P002
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B21, B4
Tank instructions (IMDG) : T3
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A EmS-No.
(Spillage) : S-B
Stowage category (IMDG) : A
Properties and observations
(IMDG) : Colourless, deliquescent crystals.
Melting point of the pure substance: 58°C .
In thepresence of moisture,
corrosive to most metals.
Causes burns to skin, eyes andmucous membranes.
MFAG-No :153 -
Air transport
PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y844
PCA limited quantity max net quantity (IATA): 5kg
PCA packing instructions (IATA) : 859
PCA max net quantity (IATA) : 15kg
CAO packing instructions (IATA) : 863
CAO max net quantity (IATA) : 50kg
ERG code (IATA) : 8L -
Inland waterway transport
Classification code (ADN) : C4
Limited quantities (ADN) : 1 kg
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0 -
Rail transport
Classification code (RID) : C4
Excepted quantities (RID) : E2
Packing instructions (RID) : P002, IBC08
Special packing provisions (RID) : B4
Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID): T3
Portable tank and bulk container special provisions (RID): TP33
Tank codes for RID tanks (RID) : SGAN, L4B
N Transport category (RID) : 2
Special provisions for carriage – Packages (RID): W11
Colis express (express parcels) (RID) : CE10
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 No
REACH Annex XVII restrictions TRICHLOROACETIC ACID AR is not on the
REACH Candidate List TRICHLOROACETIC ACID AR is not on the REACH Annex XIV List
15.1.2. National regulations
Germany
Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water
(Classificationaccording to AwSV; ID No. 197)
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 : The substance is not 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 : TRICHLOROACETIC ACID AR is 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. In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling,storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only
for this product. If the product is used as a component in another product, this MSDS information may not be applicable.