Material Safety Data Sheet

Tri Ethanol Amine USP (RXSOL-19-1583-210)

1. Product and Company Identifaction

Product Name	RXSOL-19-1583-210
Product Type	Triethanolamine 85-99%

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemical Name	CAS Number	EC Number
nitrilotriethanol	102-71-6 2,2',2	203-049-8

3. Hazards Identification

Hazard description: Not applicable.
Information concerning particular hazards for human and environment: Not applicable.

4. First Aid Measures

General information	No special measures required.
After inhalation	Supply fresh air; consult doctor in case of complaints.
After skin contact	Generally the product does not irritate the skin.
After eye contact	Rinse opened eye for several minutes under running water.
After swallowing	If symptoms persist consult doctor.

5. Fire-fighting Measures

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
Protective equipment: No special measures required.

6. Accidental Release Measures

Person-related safety precautions: Not required.
Measures for environmental protection:Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: No dangerous substances are released.

7. Handling and Storage

Handling:
Information for safe handling:
Handling:
Information for safe handling: No special requirement
Information about fire - and explosion protection: No special measures required.
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None.
Information about fire - and explosion protection: No special measures required.
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None.

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

102-71-6 2,2',2''-nitrilotriethanol

TLV (USA)	5 mg/m³

Additional information: The lists valid during the making were used as basis.
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection: Not required.
Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties

General Information	
Form	Fluid
Colour	Colourless
Odour	Ammonia-like
Change in condition	
Melting point/Melting range	17.9°C
Boiling point/Boiling range	286°C
Flash point	180°C

Ignition temperature	305°C
Danger of explosion	Product does not present an explosion hazard.
Vapour pressure at 20°C	0.02 hPa
Density at 20°C	1.13 g/cm³

10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Dangerous reactions No dangerous reactions known.
Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

Oral	LD50	8000 mg/kg (rat)

Primary irritant effect:	
on the skin	No irritant effect.
on the eye	No irritating effect.
Sensitization	No sensitizing effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

12. Ecological information

General notes:
Water hazard class 1 (German Regulation) (Assessment by list):slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

13. Disposal considerations

Product:
Recommendation Smaller quantities can be disposed of with household waste.
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport information

Land transport ADR/RID (cross-border)
• ADR/RID class: -
• Maritime transport IMDG:
• Marine pollutant: No

15. Regulatory information

Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals.

The substance is not subject to classification according to EU lists and other sources of literature known to us.

16. Other information

This information is based on our present knowledge.However, this shall not constitute a guarantee for anys pecific product features and shall not establish a legally valid contractual relationship.

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