Material Safety Data Sheet

RXSOL Rusto Bright (RXSOL-16-1694-025)

1. Product and Company Identifaction

Product Name	: RXSOL Rusto Bright
Part Number	: RXSOL-16-1694-025

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / informationon ingredients

Name of Substance	Cas Number	EINECS No	Wt.%	Symbol
Tri(hydroxyethyl)amine	102-71-6	203-049-8	20 -30 %	Xi
1,2-propanediol 200-338-0	57-55-6	200-338-0	1 - 5%	Xn
Diethylenimide oxide	110-91-8	230-815-1	1 -5%	C
2,2',2''-nitrilotriethanol acetatet	14806-72-5	238-874-2	1 - 5 %	Xi

3. Hazards Identification

Signal Word	Warning
Physical Hazards	None
Hazard Statements	Health Hazards: H316: Causes mild skin irritation H319: Causes serious eye irritation Environmental Hazards: None
Precautionary statements - prevention	P261: Avoid breathing mist or vapors P264: Wash skin thoroughly after handling P273: Avoid release to theenvironment P280: Wear protective gloves and eye protection
Precautionary statements - response	P301+310+P331: IF SWALLOWED: Call the POISON CENTER or doctor. DO NOT induce vomiting P303+P361+353: IF ON SKIN, Take off all contaminated clothing immediately. Rinse skin with water/shower P304+340: IF INHALED, Remove to fresh air and keep comfortable for breathing. If not breathing give artificial respiration. DO NOT use mouth to mouth resuscitation without proper protection P305+P351: IF IN EYES rinse cautiously with water for at least 15 minutes P306+P361: IF ON CLOTHING, Take off contaminated clothing P376: Stop leaks if safe to do so. See section 6 for proper clean up.
Storage Statements	P403+P233: Store in a well-ventilated place, Keep container tightly closed when not in use

4. First Aid Measures

Eye Contact	In case of eye contact, rinse with plenty of water and seek medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation:	If inhaled, If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion:	If swallowed, do not induce vomiting. Allow victim to rinse his mouth and then to drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physicians	Treat symptomatically.

5. Fire-fighting Measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment	Use personal protective equipment.
Hazardous combustion products	Emits toxic fumes (carbon oxides, nitrogen oxides) under fire conditions. (See also Stability and Reactivity section).
Advice for firefighters	Wear self-contained breathing apparatus. Wear full protective equipment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. Wear suitable personal protective equipment.Respiratory protective equipment.
Enviromental Precaution	Do not allow contact with soil, surface or ground water.If the products get into drains, inform the relevant authorities immediately.
Methods and materials for containment and cleaning up	Neutralize spill. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. Handling and Storage

Advice on safe handling	Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.
Storage	Do not store near acids. Keep out of reach of children. Store in suitable labeled containers. Storage temperature : 10 °C to 50 °C
Advice on general occupational hygiene	Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

8. Exposure controls and personal protection

Engineering Control	Provide general or local exhaust ventilation systems to maintain airborne concentrations below TLV/PELs Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Personal Protection

Eye protection : Wear eye protection/ face protection.
Hand protection : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Exposure Limits:

Chemical Names	ACGIH- TLV	OSHA - PEL
RXSOL Rusto Bright	25 mg/m3 TWA	25 mg/m3 TWA

ACGIH = American Conference of Governmental Industrial Hygienists.
TLV = Threshold Limit Value. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Colour	Colourless to slightly Yellow
Odour	Odourless
Boiling point	100 °C
Flash Point	220 °C
Freezing Point	-5°C
pH	10-12
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Explosive properties	No data available
Vapor pressure	0 kPa @ 20°C
Relative vapor density	No data available
Relative density	1.01-1.15
Water solubility	Soluble
Solubility in other solvents	No data available
Partition coefficient: octanol	No data available
Autoignition temperature	No data available
Thermal decomposition	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	No data available
VOC	No data available

10. Stability and reactivity

Recativity	None
Stability	The product is stable..

Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Incompatible materials	Excessive Heat
Hazardous Decomposition	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Condition to Avoid	None Known
Polymerization	Will not occur.

11. Toxicological information

Route of Exposure	Inhalation, Eye contact, Skin contact
Eyes	Irritation, redness, watering eyes, itchiness.
Skin	Irritation, redness, itchiness.
Ingestion	Irritation, nausea, vomiting, diarrhea.
Inhalation	Irritation, coughing, wheezing.
Chronic Exposure	Health injuries are not known or expected under normal use.
Acute oral toxicity	LD50 [oral rat] 6400 mg/kg LC50 [dermal rat] 22500 mg/kg LC50- [oral rabbit] 11,000 mg/kg LC 50-oral [guinea pig] 11,000 mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Classification	The classification was made by the conventional (calculation) method of Dangerous Preparations Directive(1999/45/EC)

12. Ecological information

Environmental Effects	No data available
Toxicity to fish	Aquatic vertebrates LC50 11800 mg/l Fish 96 hours
Toxicity to daphnia and others	Aquatic invertebrates EC50 610mg/l Daphnia 48 hours
Toxicity to algae	No data available
Biodegradability	96% (28 d)
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

13. Disposal considerations

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility

14. Transport information

ADR/RID	Not regulated for transport / Not Degerous goods.
IMDG	Not regulated for transport / Not Degerous goods
IATA	Not regulated for transport / Not Degerous goods
Marine pollutant	No

15. Regulatory information

Regulations	SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
311/312 HAZARD CATEGORIES	Not categorized
313 REPORTABLE INGREDIENTS	No ingredients present
302/304 EMERGENCY PLANNING	No ingredients present
TSCA	All ingredients in this product are listed on the TSCA inventory

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages. 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.