Material Safety Data Sheet

RO Biocide DBN 20 (RXSOL-33-3329-025)

1. Product and Company Identifaction

Product Name	RO Biocide DBN 20
Part Number	RXSOL-33-3329-025

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemical Name	CAS No.	EC No.	Classification
2,2-dibromo-3-nitrilopropionamide	10222-01-2	233-539-7	Xn; R20/22 Xi; R38-41-43
Proprietory bromide blend	-	-	-

3. Hazards Identification

Classification1999/45/?C	Xi; R38-41-43 Symbols: Xi: Irritant.
Main hazards	Irritating to skin. Risk of serious damage to eyes. May cause sensitisation by skin contact.
Classification	EC 1272/2008 Acute Tox. 4: H302; Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Dam. 1: H318;
Signal Word	Danger
Hazard Statement	Acute Tox. 4: H302 - Harmful if swallowed. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Dam. 1: H318 - Causes serious eye damage.
Precautionary statements - prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands thoroughly after handling. P270 - Do no eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water/ . 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/ . P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
Precautionary Statement-Disposal	P501 - Dispose of contents/container to local and national regulations
Other hazards	No data is available on this product.

4. First Aid Measures

Eye Contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin Contact	Remove contaminated clothing. Seek medical attention if irritation or symptoms persist. Wash off immediately with plenty of soap and water.
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:	DO NOT INDUCE VOMITING. Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist.
Most important symptoms and effects, both acute and delayed	Inhalation Inhalation may cause nausea and vomiting. Eye contact Risk of serious damage to eyes. Skin contact Irritating to skin. May cause sensitisation by skin contact. Ingestion Harmful by inhalation and if swallowed.
Indication of any immediate medical attention and special treatment needed	If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting Measures

Suitable extinguishing media	If you feel unwell, seek medical advice (show the label where possible).
Special hazards arising from the substance or mixture	In case of fire and/or explosion do not breathe fumes. Burning produces irritating, toxic and obnoxious fumes.
Advice for firefighters	Wear suitable respiratory equipment when necessary.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation of the working area. Wear suitable protective clothing, gloves and eye/face protection.
Enviromental Precaution	Do not allow runoff water to enter sewers or drains. Do not empty into drains; dispose of this material and its container in a safe way. Prevent further spillage if safe.
Methods and materials for containment and cleaning up	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
Reference to other sections	See section 8 for further information.

7. Handling and Storage

Precautions for safe handling	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin. Use in a well ventilated area.
Conditions for safe storage, including any incompatibilities Keep container tightly closed. Keep in a cool, dry, well ventilated area. Store in correctly labelled containers	Keep away from food, drink and animal feedingstuffs.
Specificend end use	Water treatment chemicals.
Suitable packaging	Plastic containers.

8. Exposure controls and personal protection

Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Wear protective clothing.
Eye / face protection	Face shield. (Standard EN 166).

Skin Protection Hand Protection	Chemical resistant gloves (PVC). (Standard EN374-1). Material of Gloves: Nitrile Rubber NBR; Penetration time of Glove material: Thickness 0.4 mm; break-through time: 480 min: material: Nitrile; permeation: level 6.
Respiratory Protection	Do not breathe gas/fumes/vapour/spray. Suitable half mask respirator with filter P3 (EN141ABEK1).



Gloves



Suit

9. Physical and chemical properties

Appearance	Liquid
Colour	Pale yellow
Odour	Slight
pH	2-5 pH Range Neat @ 25C
Melting Point	No Data Availble
Initial Boilling Point	70 °C
Flash Point	182 °C
Evaporation Rate	No data available
Flammability (solid, Gas)	No data available
Autognition Temperature	Miscible in water
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Solublility	Miscible in water
Conductivity	No Data available
Surface Tension	No data available
Specific Gravity	1.1 - 1.3 @ 25C

10. Stability and reactivity

Recativity	Stable under normal conditions.
Chemical stability	Stable under normal conditions. Unstable at elevated temerpatures.
Possibility of hazardous reactions	None.
Conditions to avoid	Keep away from direct sunlight. Keep in a cool, dry, well ventilated area. Keep only in the original container at a temperature not exceeding 70 °C.
Incompatible materials	Avoid contact with: Oxidising agents, Bases.
Hazardous decomposition products	No data is available on this product.

11. Toxicological information

Acute toxicity	No data is available on this product.
Eyes Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	Risk of serious damage to eyes.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ cell mutangenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No teratogenic effects reported.
STOT	Single exposure None.

STOT	Repeated exposure None.
Aspiration hazard	None.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

12. Ecological information

Persistence and degradability	Readily biodegradable.
Bioaccumulative potential	Does not bioaccumulate.
Mobility in soil	No data is available on this product.
Results of PBT and vPvB assessment	None.
Other adverse effects	None

13. Disposal considerations

Waste treatment methods	Dispose of in compliance with all local and national regulations. 16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST. 16 03 05 organic wastes containing dangerous substances.
Disposal methods	Dispose of in compliance with all local and national regulations.
Disposal of packaging	Empty containers can be sent for disposal or recycling. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

14. Transport information

UN number:	UN3265
UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2-Di-Bromo-3-Nitrilo-Propionamide)

ADR/ ADNR

ADR/RID	8
Subsidiary risk IMDG	8
Subsidiary risk IATA	8
Subsidiary risk	14.4
Packing group	
Packing group III	14.5.
Environmental hazards	
Marine pollutant	No
ADR/RID	
Hazard ID	80
Tunnel Category	(E)
IMDG EmS Code	F-A S-B
IATA	
Packing Instruction (Cargo)	856
Maximum quantity	60L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

15. Regulatory information

Regulations	In accordance with REACH Regulation (EC) No 1907/2006 as last amended with respect to SDS provisions by Commission Regulation (EU) 2015/830. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
Chemical safety assessment	No data available.
Further information	FOR INDUSTRIAL USE. Water Hazard Class:. WGK 1.

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.