

1. Product and Company Identification

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Product Name Volatile Corrosion Inhibitor
Part Number RXSOL-44-1545-210

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / Information on ingredients

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Product name	Cas No	Weight
MORPHOLINE	110-91-8	8.82 g 9.8
MEA BORATE	26038-87-9	4.04 g 6.06

3. Hazards Identification

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Signal Word	Danger
Hazard Statements	H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage
Precautionary statements	P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. 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, a doctor. P363 - Wash contaminated clothing before reuse. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
Other hazards	No data available

4. First Aid Measures

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General advice	Call a physician immediately.
If inhaled	Remove person to fresh air and keep comfortable for breathing
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if

Swallowed	present and easy to do. Continue rinsing. Call a physician immediately
Skin Contact	Rinse mouth. Do not induce vomiting. Call a physician immediately
Inhalation	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately
Ingestion	No data available
Most important symptoms and effects, both acute and delay	No data available
Indication of any immediate medical attention and special treatment needed	Burns. Symptoms/effects after eye contact : Serious damage to eyes. Symptoms/effects after ingestion : Burns. Treat symptomatically.

5. Fire-fighting Measures

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Flammability	No data available
Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	Heating increases the fire hazard
Further information	No data available
Hazardous combustion products	Toxic fumes may be released
Advice for firefighters	Do not enter fire area without proper protective equipment, including respiratory protection.
Protective Equipment	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Specific Hazards Arising from the Chemical	No data available

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Do not handle until all safety precautions have been read and understood. Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapors. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Spillage	No data available
Personal Protection	No data available
Environmental Precaution	Avoid release to the environment.
Methods and materials for containment and cleaning	Absorb spilled material with sand or earth. Methods for cleaning up : Take up liquid spill into absorbent material. Other information : Dispose of materials or solid residues at an authorized site.
Reference to other sections	For further information refer to section 13.

7. Handling and Storage

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Advice on protection against fire and explosion	No data available
Incompatible materials	No data available
Hygiene measures	Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Advice on safe handling	Not expected to present a significant hazard under anticipated conditions of normal use. Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapors. Wear personal protective equipment
Conditions for safe storage including any incompatibilities	No data available
Storage conditions	Store locked up. Store in a well-ventilated place. Keep cool.

Storage class	No data available
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Advice on general occupational hygiene	No data available

8. Exposure controls and personal protection

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Exposure controls	Personal Protective Equipment
Engineering Control	Ensure good ventilation of the work station.
Eye/face protection	Safety glasses
Body Protection	Flame retardant antistatic protective clothing.
Skin protection	Protective gloves Wear suitable protective clothing
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Other Protection Measure	No data available

9. Physical and chemical properties

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Physical state	Liquid
Colour	Amber
Odour	Mild odour
Odor Threshold	No data available
pH	10.5
Melting Point	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Viscosity	No data available
Density	No data available
Relative Density	No data available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	No data available
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition

11. Toxicological information

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Acute toxicity	LD50 oral rat 1900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) LD50 dermal rabbit 500 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) ATE US (oral) 1900 mg/kg body weight ATE US (dermal) 500 mg/kg body weight ATE US (gases) 4500 ppmV/4h ATE US (vapors) 11 mg/l/4h ATE US (dust, mist) 1.5 mg/l/
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	No data available
Carcinogenicity	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Additional Information	No data available

12. Ecological information

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Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water. Biochemical oxygen demand (BOD) 0.02 g O ₂ /g substance ThOD 2.6 g O ₂ /g substance
Toxicity to fish	380 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal)
Toxicity to daphnia and other aquatic invertebrates	44.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, Locomotor effect)
Toxicity	No data available
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Bioaccumulation potential	BCF - Fish [1] < 2.8 (Equivalent or similar to OECD 305, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)
Mobility in soil	Highly mobile in soil.
Results of PBT and vPvB assessment	No data available
Endocrine disrupting properties	No data available
Other adverse effects	No data available

13. Disposal considerations

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Regional legislation (waste)	Disposal must be done according to official regulations
Contaminated packaging	No data available
Waste treatment Method	Dispose of contents/container in accordance with licensed collector's sorting instructions

14. Transport information

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UN number	ADR/RID:	IMDG:	IATA:
UN proper shipping name	ADR/RID:Not dangerous goods	IMDG:Not dangerous goods	IATA:Not dangerous goods
Transport hazard class(es)	ADR/RID:	IMDG:	IATA:
Packaging group	ADR/RID:-	IMDG:-	IATA:-
Environmental hazards	ADR/RID:No	IMDG:No	IATA:No

Special precautions for user	No data available
Further information	No data available

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work
Chemical Safety Assessment	A Chemical Safety Assessment was not carried out for this substance.

16. Other information

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Other Information	<p>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 we 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.</p> <p>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.</p>
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