

1. Product and Company Identification

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Product Name TEFLON ADVANCED PROTECTOR
Product Type RXSOL-41-8960-025

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Component	CAS-No.	Concentration
Water	7732-18-5	76 - 92 %
2-Methylpentane-2,4-diol	107-41-5	3 - 7 %
Partially Fluorinated Condensation Polymer		1 - 5 %
Acrylic Copolymer		3 - 7 %
Partially Fluorinated Amphiphilic Condensation Polymer		1 - 5 %

3. Hazards Identification

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Emergency Overview

The hazards of this product are associated mainly with its processing. Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema). Inhalation of aerosol or fine spray mist may cause serious respiratory problems.

Potential Health Effects

Skin : May cause skin irritation. May cause:, Discomfort, itching, redness, or swelling..

Eyes : May cause eye irritation. May cause:, tearing, Redness, Discomfort.

Inhalation : Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema). Inhalation of aerosol or fine spray mist may cause serious respiratory problems.

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

4. First Aid Measures

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Skin contact : Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.

Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Symptoms may be delayed. Call a physician immediately.

Ingestion : Call a physician or poison control centre immediately. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

5. Fire-fighting Measures

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Flammable Properties

Flash point : > 93 °C (> 199 °F)

Thermal decomposition : > 200 °C (> 392 °F)

To avoid thermal decomposition, do not overheat.

Thermal decomposition can lead to release of irritating gases and vapours.

Fire and Explosion Hazard : The product itself does not burn. Hazardous decomposition products formed under fire conditions. Hazardous combustion products: Hydrogen fluoride
Carbon dioxide (CO₂) Carbon monoxide Other hazardous decomposition products may be formed.

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Firefighting Instructions : Wear self contained breathing apparatus for fire fighting if necessary.

Evacuate personnel to safe areas. Do not allow run-off from fire fighting to enter drains or water courses.

6. Accidental Release Measures

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NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with cleanup.

Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel to safe areas. Use personal protective equipment.

Ventilate the area.

Spill Cleanup : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.

Accidental Release Measures : Do not discharge to streams, ponds, lakes or sewers. Avoid subsoil penetration.

7. Handling and Storage

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Handling (Personnel) : Avoid formation of respirable particles. Do not breathe vapor or mist. Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.

Handling (Physical Aspects) : To avoid thermal decomposition, do not overheat. Thermal decomposition can lead to release of irritating gases and vapours.

Do not spray near open flame or heated surface.

Storage : Keep tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls and personal protection

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Engineering controls : Use only in area provided with appropriate exhaust ventilation. Use an airless flow type of spray applicator. Keep spraying pressure below 60 psi.

Personal protective equipment

Respiratory protection : In case of mist or aerosol exposure wear suitable personal respiratory protection.

Hand protection : Additional protection: Impervious gloves

Eye protection : Wear safety glasses or coverall chemical splash goggles.

Skin and body protection : Lightweight protective clothing

Exposure Guidelines

Exposure Limit Values

2-Methylpentane-2,4-diol

TLV (ACGIH) 25 ppm TLV-C*

9. Physical and chemical properties

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Form	liquid
Color	white
Odor	slight, acrylic-like
pH	3.5 - 5.3
Freezing point	ca. 0 °C (32 °F)
Boiling point	ca. 100 °C (212 °F) at 760 mm Hg
% Volatile :	83 - 95 %
Specific gravity	1.02
Water solubility	dispersible

10. Stability and reactivity

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Conditions to avoid : To avoid thermal decomposition, do not overheat.

Hazardous decomposition

products : Carbon dioxide , Carbon monoxide, Hydrogen fluoride

Incompletely burned carbon products

Other hazardous decomposition products may be formed.

11. Toxicological information

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Further information : No data is available on the product itself.

2-Methylpentane-2,4-diol

Dermal LD50 : > 2,000 mg/kg , rat

Oral LD50 : > 2,000 mg/kg , rat

Inhalation : An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Skin irritation : slight irritation, rabbit Eye irritation : slight irritation, rabbit

Skin sensitization : Animal test did not cause sensitization by skin contact., guinea pig

Repeated dose toxicity : Oral

rat

No adverse effect has been observed in chronic toxicity tests.

Mutagenicity : Evidence suggests this substance does not cause genetic damage in animals.

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Evidence suggests the substance is not a developmental toxin in animals.

Partially Fluorinated Condensation Polymer

Oral ALD : > 11,000 mg/kg , rat

Skin irritation : slight irritation, rabbit

Eye irritation : slight irritation, rabbit

Skin sensitization : Did not cause sensitization on laboratory animals., mouse

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

Partially Fluorinated Amphiphilic Condensation Polymer

Dermal LD50 : > 5,000 mg/kg , rat

Oral LD50 : > 5,000 mg/kg , rat

Inhalation 4 h ALC -

Approximate Lethal : > 1.363 mg/l , rat Concentration

Skin irritation : No skin irritation, rabbit

Eye irritation : slight irritation, rabbit

Skin sensitization : Did not cause sensitization on laboratory animals., mouse

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

12. Ecological information

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Aquatic Toxicity

2-Methylpentane-2,4-diol

96 h LC50 : Pimephales promelas (fathead minnow) 8,690 mg/l

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 9,450 mg/l

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 12,800 mg/l

96 h LC50 : Gambusia affinis (Mosquito fish) 8,510 mg/l

96 h LC50 : Carassius auratus (goldfish) 12,000 mg/l

72 h EC50 : Selenastrum capricornutum (green algae) > 429 mg/l

48 h EC50 : Daphnia magna (Water flea) 5,410 mg/l

Partially Fluorinated Condensation Polymer

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 100 mg/l

Information given is based on data obtained from similar product.

72 h NOEC : Algae > 100 mg/l

Information given is based on data obtained from similar product.

72 h LC50 : Algae > 100 mg/l

Information given is based on data obtained from similar product.

48 h EC50 : Daphnia magna (Water flea) 4.3 mg/l

Information given is based on data obtained from similar product. Partially Fluorinated Amphiphilic Condensation Polymer

48 h EC50 : Daphnia magna (Water flea) > 120 mg/l

Information given is based on data obtained from similar product.

Environmental Fate

2-Methylpentane-2,4-diol

Biodegradability : Readily biodegradable.

Bioaccumulation : Bioconcentration factor (BCF) : 3.16

Bioaccumulation is unlikely.

13. Disposal considerations

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Waste Disposal : In accordance with local and national regulations.

14. Transport information

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Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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TSCA : Listed

This material contains one or more substances which are subject to a TSCA

Section 5 Consent Order or Significant New Use Rule (SNUR).

See 40 CFR 721.10146 for SNUR requirements.

This material contains one or more substances which requires export

notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D:: Partially Fluorinated Amphiphilic Condensation Polymer

PMN Number: P-08-0200

Partially Fluorinated Condensation Polymer

PMN Number: P-07-0087

This material shall not be distributed to consumers for use in spray applications.

Contact your local DuPont sales or technical representative for more information.

SARA 313 Regulated

Chemical(s)

: **SARA 313**: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or

any other harm: none known

PA Right to Know

Regulated Chemical(s)

: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous

Substances): 2-Methylpentane-2,4-diol

NJ Right to Know

Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances

identified as carcinogens, mutagens or teratogens): 2-Methylpentane-2,4-diol

16. Other information

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HMIS

Health : 1

Flammability : 0

Reactivity/Physical hazard : 0

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Significant change from previous version is denoted with a double bar.