Material Safety Data Sheet

Teflon Finish Advanced Protector (RXSOL-41-8960-025)

1. Product and Company Identifaction

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

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

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2. Composition / informationon ingredients

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

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

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

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

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

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

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

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

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

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

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

Waste Disposal : In accordance with local and national regulations.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

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.