

1. PRODUCT NAME: RSS FOG FLUID

Distributed by:
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2. COMPOSITION/INFORMATION ON INGREDIENTS

DIPROPYLENE GLYCOL

CAS# 025265-71-8

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

* COLORLESS LIQUID. PRACTICALLY ODORLESS. NO SIGNIFICANT IMMEDIATE *
* HAZARDS FOR EMERGENCY RESPONSE ARE KNOWN. *

POTENTIAL HEALTH EFFECTS (SEE SECTION 11 FOR TOXICOLOGICAL DATA.)
EYE: ESSENTIALLY NONIRRITATING TO EYES.

SKIN: PROLONGED OR REPEATED EXPOSURE NOT LIKELY TO CAUSE
SIGNIFICANT SKIN IRRITATION. A SINGLE PROLONGED EXPOSURE IS
NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH
SKIN IN HARMFUL AMOUNTS.

INGESTION: SINGLE DOSE ORAL TOXICITY IS CONSIDERED TO BE
EXTREMELY LOW. NO HAZARDS ANTICIPATED FROM INGESTION INCIDENTAL
TO NORMAL HANDLING OPERATIONS.

INHALATION: PROLONGED OR REPEATED EXPOSURE NOT LIKELY TO CAUSE
SIGNIFICANT IRRITATION. FOR RECOMMENDED EXPOSURE LIMITS SEE
ANSI 1.5-2003 AVAILABLE FREE AT WWW.ESTA.ORG/TSP

SYSTEMIC (OTHER TARGET ORGAN EFFECTS): BASED ON AVAILABLE DATA,
REPEATED EXPOSURES ARE NOT ANTICIPATED TO CAUSE ANY SIGNIFICANT
ADVERSE EFFECTS.

CANCER INFORMATION: NO RELEVANT INFORMATION FOUND.

TERATOLOGY (BIRTH DEFECTS): BIRTH DEFECTS ARE UNLIKELY. EVEN
EXPOSURES HAVING AN ADVERSE EFFECT ON THE MOTHER SHOULD HAVE
NO EFFECT ON THE FETUS.

REPRODUCTIVE EFFECTS: NO RELEVANT INFORMATION FOUND.

4. FIRST AID

EYE: FLUSH EYES WITH PLENTY OF WATER.

SKIN: WASH OFF IN FLOWING WATER OR SHOWER.

INGESTION: IF SWALLOWED, SEEK MEDICAL ATTENTION. DO NOT INDUCE
VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL.

INHALATION: NO ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF
EXPOSURE.

NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE.
TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO
REACTIONS OF THE PATIENT.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 255F, 124C

METHOD USED: PMCC

AUTOIGNITION TEMPERATURE: 628F, 331C

FLAMMABILITY LIMITS

LFL: NOT DETERMINED.

UFL: NOT DETERMINED.

HAZARDOUS COMBUSTION PRODUCTS: DURING A FIRE, SMOKE MAY CONTAIN
THE ORIGINAL MATERIAL IN ADDITION TO UNIDENTIFIED TOXIC AND/OR
IRRITATING COMPOUNDS. HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE
AND ARE NOT LIMITED TO CARBON MONOXIDE, CARBON DIOXIDE.

OTHER FLAMMABILITY INFORMATION: VIOLENT STEAM GENERATION OR
ERUPTION MAY OCCUR UPON APPLICATION OF DIRECT WATER STREAM TO
HOT LIQUIDS. SPILLS OF THESE ORGANIC LIQUIDS ON HOT FIBROUS
INSULATION MAY LEAD TO LOWERING OF THE AUTOIGNITION TEMPERATURES
POSSIBLY RESULTING IN SPONTANEOUS COMBUSTION. CONTAINER MAY
RUPTURE FROM GAS GENERATION IN A FIRE SITUATION.

EXTINGUISHING MEDIA: WATER FOG OR FINE SPRAY, CARBON DIOXIDE,
DRY CHEMICAL, FOAM. ALCOHOL RESISTANT FOAMS (ATC TYPE) ARE
PREFERRED IF AVAILABLE. GENERAL PURPOSE SYNTHETIC FOAMS
(INCLUDING AFFF) OR PROTEIN FOAMS MAY FUNCTION, BUT MUCH LESS
EFFECTIVELY. DO NOT USE DIRECT WATER STREAM. MAY SPREAD FIRE.

MEDIA TO BE AVOIDED: DO NOT USE DIRECT WATER STREAM.

FIRE FIGHTING INSTRUCTIONS: KEEP PEOPLE AWAY. ISOLATE FIRE AREA
AND DENY UNNECESSARY ENTRY. DO NOT USE DIRECT WATER STREAM.
MAY SPREAD FIRE. BURNING LIQUIDS MAY BE MOVED BY FLUSHING WITH
WATER TO PROTECT PERSONNEL AND MINIMIZE PROPERTY DAMAGE. USE
WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND FIRE AFFECTED
ZONE UNTIL FIRE IS OUT AND DANGER OF RE-IGNITION HAS PASSED.
BURNING LIQUIDS MAY BE EXTINGUISHED BY DILUTION WITH WATER.
FIGHT FIRE FROM PROTECTED LOCATION OR SAFE DISTANCE. CONSIDER
USE OF UNMANNED HOSE HOLDER OR MONITOR NOZZLES. IMMEDIATELY
WITHDRAW ALL PERSONNEL FROM AREA IN CASE OF RISING SOUND FROM
VENTING SAFETY DEVICE OR DISCOLORATION OF THE CONTAINER. MOVE
CONTAINER FROM FIRE AREA IF THIS IS POSSIBLE WITHOUT HAZARD.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE,
SELF-CONTAINED BREATHING APPARATUS (SCBA) AND PROTECTIVE FIRE
FIGHTING CLOTHING (INCLUDES FIRE FIGHTING HELMET, COAT, PANTS,
BOOTS AND GLOVES). IF PROTECTIVE EQUIPMENT IS NOT AVAILABLE OR
NOT USED, FIGHT FIRE FROM A PROTECTED LOCATION OR SAFE DISTANCE.

6. ACCIDENTAL RELEASE MEASURES (SEE SECTION 15 FOR REGULATORY
INFORMATION)

PROTECT PEOPLE: KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA
AND DENY UNNECESSARY ENTRY.

PROTECT THE ENVIRONMENT: KEEP OUT OF SEWERS, STORM DRAINS,
SURFACE WATERS AND SOIL.

CLEANUP: FOR LARGE SPILLS, USE CONTAINMENT DIKE IF POSSIBLE.
RECOVER WITH VACUUM TRUCK. SMALL AMOUNT CAN BE SOAKED UP WITH
ABSORBENT MATERIAL AND SHOVELLED INTO DRUMS. WASH DOWN
REMAINING SMALL AMOUNT WITH WATER.

7. HANDLING AND STORAGE

HANDLING: REFER TO EXPOSURE CONTROLS/PERSONAL PROTECTION,
SECTION 8 OF THIS MSDS.

STORAGE: KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: GOOD VENTILATION SHOULD BE SUFFICIENT FOR
MOST CONDITIONS.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: USE SAFETY GLASSES.

SKIN PROTECTION: NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING
CLOTHING SHOULD BE NEEDED.

RESPIRATORY PROTECTION: NO RESPIRATORY PROTECTION SHOULD
BE NEEDED.

EXPOSURE GUIDELINE: NONE ESTABLISHED EXCEPT INHLATION, REFER TO
SECTION 3 OF THIS MSDS.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: COLORLESS LIQUID.

ODOR: PRACTICALLY NO ODOR.

VAPOR PRESSURE: 0.016 MM @ 25c

VAPOR DENSITY: 4.63

BOILING POINT: 450F, 232.2C

SOLUBILITY IN WATER: COMPLETELY MISCIBLE.

SPECIFIC GRAVITY: 1.022 @ 25c

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
SEE STORAGE, SECTION 7.

CONDITIONS TO AVOID: PRODUCT CAN DECOMPOSE AT ELEVATED
TEMPERATURES. GENERATION OF GAS DURING DECOMPOSITION CAN CAUSE
PRESSURE IN CLOSED SYSTEMS.

INCOMPATIBILITY WITH OTHER MATERIALS: AVOID CONTACT WITH
OXIDIZING MATERIALS. AVOID CONTACT WITH STRONG ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: HAZARDOUS DECOMPOSITION
PRODUCTS DEPEND UPON TEMPERATURE, AIR SUPPLY AND THE PRESENCE
OF OTHER MATERIALS. WHEN AVAILABLE OXYGEN IS LIMITED, AS IN A
FIRE OR WHEN HEATED TO VERY HIGH TEMPERATURES BY HOT WIRE OR
PLATE, CARBON MONOXIDE AND OTHER HAZARDOUS COMPOUNDS SUCH AS
ALDEHYDES MIGHT BE GENERATED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION (SEE SECTION 3 FOR POTENTIAL HEALTH

EFFECTS. FOR DETAILED TOXICOLOGICAL DATA, WRITE OR CALL THE ADDRESS OR NON-EMERGENCY NUMBER SHOWN IN SECTION 1)

SKIN: THE LD50 FOR SKIN ABSORPTION IN RABBITS IS >5000 MG/KG.

INGESTION: THE ORAL LD50 FOR RATS IS 14,800 MG/KG.

MUTAGENICITY: IN VITRO MUTAGENICITY STUDIES WERE NEGATIVE.
ANIMAL MUTAGENICITY STUDIES WERE NEGATIVE.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

MOVEMENT AND PARTITIONING: BIOCONCENTRATION POTENTIAL IS LOW (BCF LESS THAN 100 OR LOG POW LESS THAN 3). MEASURED LOG OCTANOL/WATER PARTITION COEFFICIENT (LOG POW) IS -0.67. HENRY'S LAW CONSTANT (H) IS ESTIMATED TO BE 3.58 E-09 ATM-M3/MOL. BIOCONCENTRATION FACTOR (BCF) IN FISH IS BETWEEN 0.3 TO 4.6.

DEGRADATION AND PERSISTENCE: MATERIAL IS INHERENTLY BIODEGRADABLE. REACHES MORE THAN 20% BIODEGRADATION IN OECD TEST(S) FOR INHERENT BIODEGRADABILITY. BIODEGRADATION REACHED IN CLOSED BOTTLE TEST (OECD TEST No.301 D) AFTER 28 DAYS: 16%. 10-DAY BIOCHEMICAL OXYGEN DEMAND (BOD10) IS 0.14 P/P. 20-DAY BIOCHEMICAL OXYGEN DEMAND (BOD20) IS 0.71 P/P. THEORETICAL OXYGEN DEMAND (THOD) IS CALCULATED TO BE 1.91 P/P. BIODEGRADATION RATE MAY INCREASE IN SOIL AND/OR WATER WITH ACCLIMATION. BIODEGRADATION REACHED IN MODIFIED ZAHN-WELLENS/EMPA TEST (OECD TEST NO. 302B) AFTER 28 DAYS: 100%. TROPOSPHERIC HALF-LIFE IS ESTIMATED TO BE 4.096 HOURS.

ECOTOXICITY: MATERIAL IS PRACTICALLY NON-TOXIC TO FISH ON AN ACUTE BASIS (LC50 GREATER THAN 100 MG/L). ACUTE LC50 FOR FATHEAD MINNOW (PIMEPHALES PROMELAS) IS >100 MG/L.

13. DISPOSAL CONSIDERATIONS (SEE SECTION 15 FOR REGULATORY INFORMATION)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. ALL DISPOSAL METHODS MUST BE IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL LAWS AND REGULATIONS. REGULATIONS MAY VARY IN DIFFERENT LOCATIONS. WASTE CHARACTERIZATIONS AND COMPLIANCE WITH APPLICABLE LAWS ARE THE RESPONSIBILITY SOLELY OF THE WASTE GENERATOR. THE VENDOR HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITIONS AS DESCRIBED IN MSDS SECTION 2 (COMPOSITION/INFORMATION ON INGREDIENTS).

FOR UNUSED & UNCONTAMINATED PRODUCT, THE PREFERRED OPTIONS INCLUDE SENDING TO A LICENSED, PERMITTED RECLAIMER, INCINERATOR OR OTHER THERMAL DESTRUCTION DEVICE.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.):
THIS PRODUCT IS NOT REGULATED BY D.O.T. WHEN SHIPPED DOMESTICALLY BY LAND.

CANADIAN TDG INFORMATION: THIS PRODUCT IS NOT REGULATED BY TDG WHEN

SHIPPED DOMESTICALLY BY LAND.

15. REGULATORY, INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE--SELECTED REGULATIONS REPRESENTED)

NOTICE: THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED IS GIVEN. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER; IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS. THE FOLLOWING SPECIFIC INFORMATION IS MADE FOR THE PURPOSE OF COMPLYING WITH NUMEROUS FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS AND REGULATIONS. SEE OTHER SECTIONS FOR HEALTH AND SAFETY INFORMATION.

SARA 313 INFORMATION: TO THE BEST OF OUR KNOWLEDGE, THIS PRODUCT CONTAINS NO CHEMICAL SUBJECT TO SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION REQUIREMENTS.

SARA HAZARD CATEGORY: THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:

NOT TO HAVE MET ANY HAZARD CATEGORY

TOXIC SUBSTANCES CONTROL ACT (TSCA):

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

STATE RIGHT-TO-KNOW: THE FOLLOWING PRODUCT COMPONENTS ARE CITED ON CERTAIN STATE LISTS AS MENTIONED. NON-LISTED COMPONENTS MAY BE SHOWN IN THE COMPOSITION SECTION OF THE MSDS.

| CHEMICAL NAME | CAS NUMBER | LIST |
|-------------------|-------------|------|
| PROPANOL, OXYBIS- | 025265-71-8 | PA1 |

PA1=PENNSYLVANIA HAZARDOUS SUBSTANCE (PRESENT AT GREATER THAN OR EQUAL TO 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

THIS PRODUCT IS NOT A "HAZARDOUS CHEMICAL " AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

CANADIAN REGULATIONS

WHMIS INFORMATION: THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION FOR THIS PRODUCT IS:

THIS PRODUCT IS NOT A "CONTROLLED PRODUCT" UNDER WHMIS .

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

| | |
|--------------|---|
| HEALTH | 0 |
| FLAMMABILITY | 1 |
| REACTIVITY | 0 |

MSDS STATUS: REVISED SECTION 16.

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