

PPG INDUSTRIES, INC -- PRIST HI-FLASH ANTI-ICING AVIATION FUEL ADDITIVES --
6850-01-377-5314

===== Product Identification =====

Product ID:PRIST HI-FLASH ANTI-ICING AVIATION FUEL ADDITIVES

MSDS Date:05/17/1995

FSC:6850

NIIN:01-377-5314

MSDS Number: BXYHB

=== Responsible Party ===

Company Name:PPG INDUSTRIES, INC

Address:ONE PPG PLACE

City:PITTSBURGH

State:PA

ZIP:15272

Country:US

Emergency Phone N

um:205-851-1016/304-843-1300

CAGE:DO894

=== Contractor Identification ===

Company Name:PPG INDUSTRIES, INC

Box:UNKNOW

CAGE:2H823

Company Name:PPG INDUSTRIES, INC.

Address:4325 ROSANNA DR

Box:9

City:ALLISON PARK

State:PA

ZIP:15101

Country:US

Phone:412-592-5555

CAGE:DO894

===== Composition/Information on Ingredients =====

Ingred Name:DIETHYLENE GLYCOL MONOETHYL ETHER

CAS:111-90-0

RTECS #:KK8750000

Fraction by Wt: >99%

Other REC Limits:NONE RECOMMENDED

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zards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 5.5 GM/KG UNDILUTED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-DIETHYLENE GLYCOL MONOMETHYL ETHER IS AN EYE & MUCOUS MEMBRANE IRRITANT, A NEOPHROTOXIN & CENTRAL NERVOUS SYSTEM DEPRESSANT. IT IS TOXIC BY ABSORPTION. CHRONIC-FETAL DEVELOPMENT ABNORMALITIES & EFFECTS ON FERTILITY HAVE BEEN REPORTE

DTO OCCUR FROM PROLONGED INGESTION BY RATS, MICE & RABBITS.

Explanation of Carcinogenicity:THIS CHEMICAL IS NOT LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN.

Effects of Overexposure:INHALATION-MAY CAUSE IRRITATION TO THE MUCOUS MEMBRANES. EYE-MAY CAUSE PAIN & TRANSIENT INJURY. SKIN-MATERIAL CAN BE ABSORBED THROUGH SKIN IN TOXIC AMOUNTS WHEN CONTACT IS EXTENSIVE & PROLONGED.

Medical Cond Aggravated by Exposure:NONE KNONW.

===== First Aid Measures =====
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First Aid:INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS HARD, GIVE OXYGEN. CALL PHYSICIAN. EYE OR SKIN-FLUSH EYES & SKIN WITH PLENTY OF WATER (SOAP & WATER FOR S KIN) FOR AT LEAST 15 MIN. CALL PHYSICIANFOR IRRITATION. INGESTION-IF CONSCIOUS, DRINK LARGE AMOUNTS OF WATER, THEN INDUCE VOMITING BY PLACING FINGER FAR BACK IN THE THROAT. CALL A PHYSICIAN.

===== Fire Fighting Measures =====
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Flash Point Method:TCC

Flash Point:192F,89C

Lower Limits:1.2

Upper Limits:22.0

Extinguishing Media:WATER, DRY CHEMICAL, CARBON DIOXIDE, OR FOAM.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR NIOSH/MSHA APPROVED PRESSURE DEMAND SELF-CONTAINED BREATHING APPARATUS. KEEP PERSONNEL REMOVED AND UPWIND.

Unusual Fire/Explosion Hazard:NONE.

===== Accidental Release Measures =====

Spill Release Procedures:IMMEDIATELY EVACUATE THE AREA & PROVIDE

MAXIMUM VENTILATION. ONLY PERSONNEL EQUIPPED WITH PROPER RESPIRATORY & SKIN/EYE PROTECTION SHOULD BE IN AREA. DIKE AREA TO CONTAIN SPILL. RECOVER SPILLED MATERIAL ON ABSORBENT & SWEEP INTO CLOSED CONTAINER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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===== Handling and Storage =====

Handling and Storage Precautions:FOR USE ONLY AS AN ANTI-ICING AGENT IN HIGH FLASH JET FUEL ONLY. WHEN HANDLING, WEAR SAFETY GLASSES OR GOGGLES AND IMPERVIOUS GLOVES.

Other Precautions:STORE ONLY IN CLOSED, PROPERLY LABELED CONTAINERS. KEEP AWAY FROM HEAT, SPARKS AND FLAMES. USE PROPER PROPORTIONING EQUIPMENT TO BLEND INTO FUEL. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH EYES AND SKIN. DO NOT SWALLOW.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE A HALF MASK FULL FACEPIECE ORGANIC VAPOR CHEMICAL CARTRIDGE OR CANISTER RESPIRATOR WHEN CONCENTRATIONS EXCEED PERMISSIBLE

LIMITS. USE SELF-CONTAINED BREATHING APPARATUS OR FULL FACEPIECE AIRLINE RESPIRATOR FOR EMERGENCY.

Ventilation:USE LOCAL EXHAUST OR DILUTION VENTILATION AS APPROPRIATE TO CONTROL EXPOSURES TO BELOW PERMISSIBLE LIMITS.

Protective Gloves:IMPERVIOUS, CHEMICAL RESISTANT, BUTYL.

Eye Protection:SPLASHPROOF GOGGLES IF POTENTIAL FOR SP.

Other Protective Equipment:BOOTS, APRONS OR CHEMICAL SUITS SHOULD BE USED WHEN NECESSARY TO PREVENT SKIN CONTACT.

Work Hygienic Practices:DO NOT EAT, DRINK OR SMOKE IN WORK AREA.

Supplemental Safety and Health

DO NOT INHALE. USE ONLY WITH ADEQUATE VENTILATION. COMBUSTIBLE.

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===== Physical/Chemical Properties =====

HCC:V2

Boiling Pt:=192.8C, 379.F

Melt/Freeze Pt:=-85.C, -121.F

Vapor Pres:0.2 MM

Vapor Density:4.1

Spec Gravity:1.023

pH:7-8

Evaporation Rate & Reference:0.1 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS LIQUID, MILD PLEASANT ODOR.

Percent Volatiles by Volume:100

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

AVOID CONTAMINATION WITH ALKALI AT ELEVATED TEMPERATURES.

Stability Condition to Avoid: NONE.

Hazardous Decomposition Products: BURNING CAN PRODUCE CARBON MONOXIDE OR CARBON DIOXIDE.

===== Disposal Considerations =====

Waste Disposal Methods: IT IS YOUR DUTY TO DISPOSE OF THE CHEMICAL MATERIAL &/OR THEIR CONTAINERS IN ACCORDANCE WITH THE CLEAN AIR

ACT, THE CLEAN WATER ACT, & RCRA, AS WELL AS ANY OTHER RELEVANT FEDERAL, STATE OR LOCAL LAWS/REGULATIONS REGARDING DISPOSAL.

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