

W. L. GORE & ASSOCIATES, INC. -- GUA-1017-1, SKYFLEX AIRCRAFT SEALANT -- 8030-01-368-7208
===== Product Identification =====

Product ID:GUA-1017-1, SKYFLEX AIRCRAFT SEALANT

MSDS Date:08/18/1997

FSC:8030

NIIN:01-368-7208

Status Code:A

MSDS Number: CKFBV

=== Responsible Party ===

Company Name:W. L. GORE & ASSOCIATES, INC.

Address:1901 BARKSDALE ROAD

City:NEWARK

State:DE

ZIP:19711

Country:US

Info Ph

one Num:302-368-3700/ 703-527-3887

Emergency Phone Num:302-368-3700/703-527-3887

Preparer's Name:THOMAS DYKES

Chemtrek Ind/Phone:(800)424-9300

CAGE:17217

=== Contractor Identification ===

Company Name:W. L. GORE & ASSOCIATES INC, INDUSTRIAL SEALANT GROUP

Address:100 AIRPORT RD

Box:City:ELKTON

State:MD

ZIP:21921

Country:US

Phone:410-392-3200

Contract Num:3895P3169010

CAGE:0AMD8

Company Name:W. L. GORE & ASSOCIATES, INC.

Address:1901 BARKSDALE ROAD

Box:City:NEWARK

State:DE

ZIP:19711

Country:US

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Composition/Information on Ingredients
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Ingred Name:POLYTETRAFLUOROETHYLENE
CAS:9002-84-0
RTECS #:KX4025000
Minumum % Wt:90.
Maxumum % Wt:99.

Ingred Name:INORGANIC PIGMENTS, (PROPRIETARY)
= Wt:1.

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Hazards Identification
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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:NO ACUTE OR CHRONIC HEALTH EFFECTS
ANTICIPATED UNDER NORMAL HANDLING A

ND USE. OVERHEATING

(OVER260C/500F), BURNING, GRINDING, MELTING, CUTTING, ANY PROCESS
RELEASING DUST, FUME, OR GAS MAY CAUSE IRRIT ATION OF EYES, SKIN,
RESPIRATORY TRACT, "POLYMER FUME FEVER" (A TEMPORARY FLU-LIKE
ILLNESS WITH FEVER, CHILLS, SOMETIMES COUGH, OF ABOUT 24 HOURS
DURATION). INHALATION OF LOW CONCENTRATIONS OF HYDROGE N FLUORIDE,
CARBONYL FLUORIDE , OTHER THERMAL DECOMPOSITION PRODUCTS MAY RESULT
IN TEMPORARY LUNG IRRITATION, DIFFICULTY BREATHING, SHORTNES

S OF

BREATH. SMOKERS SHOULD AVOID CONTAMINATED TOBACCO PRODU CTS AND
WASH HANDS BEFORE SMOKING.

Explanation of Carcinogenicity:NO INGREDIENT IN THIS PRODUCT IS LISTED
BY IARC, NTP, OSHA, OR ACGIH AS A CARCINOGEN.

Effects of Overexposure:EXPOSURE TO THIS PRODUCT IN ITS PURCHASED FORN
IS NOT EXPECTED TO PRESENT A HEALTH HAZARD. THE HEALTH EFFECTS OF
THIS PRODUCT HAVE NOT BEEN EVALUATED. THE EFFECTS LISTED IN THE
"HEALTH HAZARD ACUTE AN D CHRONIC" FIELD ARE FOR THE INDIVIDUA

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COMPONENTS. SYMPTOMS FROM OVERHEATING, BURNING, GRINDING, MELTING,
CUTTING, OR ANY OTHER PROCESS CAUSING DUST, FUME, OR GAS:
IRRITATION OF THE EYES, SKIN, RESP IRATORY TRACT, FEVER, CHILLS,
COUGH, LUNG IRRITATION, DIFFICULTY BREATHING, SHORTNESS OF BREATH.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING
DISEASES OF THE LUNGS MAY HAVE INCREASED SUSCEPTIBILITY TO DUST OR
THERMAL DECOMPOSITION PRODUCTS.

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First Aid Measures
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First Aid:INHALATION: IF INHALATION OF THERMAL DECOMPOSITION PRODUCTS OR DUST PRODUCES RESPIRATORY DIFFICULTY, OR IRRITATION MOVE PERSON TO FRESH AIR. CONSULT A PHYSICIAN IF SYMPTOMS PERSIST. IF BREATHING STOP S, GIVE ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION. SKIN: IF MOLTEN MATERIAL GETS ON SKIN, COOL RAPIDLY WITH COLD WATER. DO NOT ATTEMPT TO REMOVE FROM SKIN. OBTAIN MEDICAL TREATMENT FOR THEM AL BURNS. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE LOWER AND UPPER LIDS.GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. INGESTION: GET MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Flash Point:NOT ESTABLISHED.

Lower Limits:N/E

Upper Limits:N/E

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER, OR REGULAR FOAM. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:KEEP PERSONNEL REMOVED FROM AND UPWIND OF

FIRE. FULL EMERGENCY EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING SHOULD BE WORN. HYDROGEN FLUORIDE FUMES EMITTED DURING A FIRE CAN REACT WITH WATER TO FORM HYDROFLUORIC ACID. WEAR NEOPRENE GLOVES WHEN HANDLING REFUSE FROM FIRE.

Unusual Fire/Explosion Hazard:HAZARDOUS GASES/VAPORS PRODUCED IN FIRE ARE HYDROGEN FLUORIDE (HF), CARBONYL FLUORIDE, CARBON MONOXIDE, CARBON DIOXIDE, AND LOW MOLECULAR WEIGHT FLUOROCARBONS.

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

Spill Release Procedures:USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN-UP. REVIEW FIRE FIGHTING MEASURES AND HANDLING PROCEEDINGS BEFORE STARTING CLEAN-UP. SPILLED MATERIAL MAY PRESENT A SLIPPING HAZARD. COLLECT BY SWEEPING OR VACUUMING ANY LOOSE MATERIAL TO PREVENT ACCUMULATION OF PRODUCT.

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

Handling and Storage Precautions:AVOID BREATHING D

UST OR DECOMPOSITION

PRODUCTS. AVOID CONTAMINATION OF CIGARETTES OR TOBACCO WITH DUST FROM THIS MATERIAL. STORE IN A DRY AREA

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

Respiratory Protection:RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED UNDER ANTICIPATED CONDITIONS OF USE. IF RESPIRATORS ARE NECESSARY, USE ONLY NIOSH/MSHA APPROVED RESPIRATORS.

Ventilation:USE LOCAL EXHAUST VENTILATION WHEN HEATING OR MELTING MATERIAL. PROVIDE EXHAUST VENTILATION IN ACCORDANCE WITH GUIDELINES IN INDUSTRIAL VENTILATION BY ACGIH.

Protective Gloves:WEAR NEOPRENE GLOVES WHEN HANDLING REFUSE FROM FIRE.

Eye Protection:SAFETY GLASSES SHOULD BE WORN IF HANDLING PRESENTS A HAZARD OF EYE INJURY.

Other Protective Equipment:PROTECTIVE CLOTHING: NONE REQUIRED UNLESS NECESSARY FOR PROTECTION FROM THERMAL BURNS OR DUST PARTICLES.

Work Hygienic Practices:AVOID BREATHING DUST OR DECOMPOSITION PRODUCTS. AVOID CONTAMINATION OF CIGARETTES OR TOBACCO WITH DUST FROM THIS PRODUCT.

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE

Spec Gravity:.4-1.7(VARIES WITH SIZE)

Solubility in Water:INSOLUBLE.

Appearance and Odor:WHITE OR GRAY COLORED, RIBBED OR NON-RIBBED, MARSHMALLOWY TAPE. NO ODOR.

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

Stability Indicator/Materials to Avoid:YES
MOLTEN ALKALI METALS, STRONG OXIDIZERS, STRONG ACIDS AND SOME REACTIVE INTERHALOGEN COMPOUNDS.

Stability Condition to Avoid:STABLE AT NORMAL TEMPERATURES AND STORAGE CONDITIONS. AVOID HEATING ABOVE 300C(572F). ABNORMALLY LONG PROCESSING TIME OR HIGH TEMPERATURES CAN PRODUCE IRRITATION AND TOXIC FUMES.

Hazardous Decomposition Products:HEATING ABOVE 572F EVOLVES PARTICLE MATTER. TRACE AMOUNTS OF HYDROGEN FLUORIDE AND CARBONYL FLUORIDE EVOLVED AT 750F. CARBON MONOXIDE, CARBON DIOXIDE EVOLVED WHEN HEATED IN AIR AT

600F.

===== Toxicological Information =====

Toxicological Information:POLYTETRAFLUOROETHYLENE (PTFE): INHALATION
LC50 (RAT): > 4,900 MG/M3. AT VERY HIGH EXPOSURE LEVELS, ANIMALS
WERE SUFFOCATED BY ACCUMULATED DUST IN LUNGS. REPEATED EXPOSURE
LEVELS, ANIMALS WERE SUFFOCATED BY ACCUMULATED DUST IN THE LUNGS.

===== Ecological Information =====

Ecological:NO INFORMATION AVAILABLE. RCRA STATUS: IF DISCHARGED IN ITS
P
PURCHASED FORM, THIS PRODUCT WOULD NOT BE A HAZARDOUS WASTE BY
LISTING. HOWEVER, UNDER RCRA, IT IS THE RESPONSIBILITY OF THE
PRODUCT USER AT THE TIME OF DISPOSAL, WHETHER A MATERIAL
CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT SHOULD BE
CLASSIFIED AS A HAZARDOUS WASTE, (40 CFR 261.20-24).

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

Waste Disposal Methods:PREFERRED OPTIONS FOR DISPOSAL ARE 1) RECYCLING
AND 2) LANDFILL. INCINCRATE ONLY IF INCINCRATOR IS CAPABLE OF
SCRUBBING OUT HYDROGEN FLUORIDE AND OTHER ACIDIC COMBUSTION
PRODUCTS. TREATMENT, STORAGE, TRANSPORTATION, AND DISPOSAL SHOULD
BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL, AND LOCAL
REGULATIONS.

===== MSDS Transport Information =====

Transport Information:DOT, IMO, ICAO/IATA HAZARD CLASSIFICATION: NOT
REGULATED.

===== Regulatory Information =====

SARA Title III Information:SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES:
NONE. SECTION 311/312 HAZARD CATEGORIES: NON-HAZARDOUS UNDER SECTION
311/312. SECTION 313 TOXIC CHEMICALS: NONE.U

Federal Regulatory Information:US TSCA: THE INGREDIENTS OF THIS PRODUCT
ARE ALL ON THE TSCA INVENTORY LIST. EEC EINECS: INFORMATION IS NOT
AVAILABLE. CERCLA REPORTABLE QUANTITY: NONE.

State Regulatory Information:STATE REGULATIONS (U.S.), COMPONENT:
POLYTETRAFLUOROETHYLENE, CAS# 9002-84-0, WT%=90-100: MA, NJ, CA,;
NO; P

A: YES. MA= MASSACHUSETTES SUBSTANCE LIST. NJ= NEW JERSEY
RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST. CA= CALIFORNIA SAFE
DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)
SUBSTANCES. CN= CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION
SYSTEM (WHMIS) INGREDIENT DISCLOSURE LIST. PA= PENNSYLVANIA
HAZARDOUS SUBSTANCE LIST.

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