

FIRE RESEARCH LABORATORIES INC -- #477 FIRE RETARDANT EPOXY COMPONENT A --
8010-00-258-7087

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

Product ID:#477 FIRE RETARDANT EPOXY COMPONENT A

MSDS Date:01/12/1995

FSC:8010

NIIN:00-258-7087

Status Code:A

MSDS Number: CLLWQ

=== Responsible Party ===

Company Name:FIRE RESEARCH LABORATORIES INC

Address:5364 PAN AMERICAN FREEWAY

City:ALBUQUERQUE

State:NM

ZIP:87109

Cou

ntry:US

Info Phone Num:800-877-3473

Emergency Phone Num:(800)424-9300

Preparer's Name:HENRY SIMMONS

Chemtec Ind/Phone:(800)424-9300

CAGE:0UH50

=== Contractor Identification ===

Company Name:FIRE RESEARCH LABORATORIES INC

Address:5364 PAN AMERICAN FREEWAY

Box:City:ALBUQUERQUE

State:NM

ZIP:87109

Country:US

Phone:800-877-3473

CAGE:0UH50

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

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7

RTECS #:XR2275000

Minimum % Wt:25.

Maxumum % Wt:

30.
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:SOLVENT NAPHTHA
Minumum % Wt:10.
Maxumum % Wt:15.

Ingred Name:PROPYLENE GLYCOL METHYL ETHER
CAS:107-98-2
Code:F
RTECS #:UB7700000
Minumum % Wt:5.
Maxumum % Wt:7.
ACGIH TLV:369 MG/M3;100 PPM
ACGIH STEL:553 MG/M3;150 PPM

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===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Effects of Overexposure:HIGH VAPOR CONCENTRATION MAY CAUSE DROWSINESS.
REPORTS HAVE ASSOCIATED
REPEATED AND PROLONGED OCCUPATIONAL
OVEREXPOSURES TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM
DAMAGE. INTENTIONAL MISUSE BY DILLIBERTLY CONCENTRATING AND
INHALING VAPORS MAY BE HARMFUL OR FATAL.

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===== First Aid Measures =====

First Aid:EYE CONTACT: IMMEDIATELY FLUSH THE EYES WITH WATER. REMOVE
CONTACT LENSES AND FLUSH EYES WITH WATER FOR 15 MINUTES INCLUDING
UNDERNEATH THE EYELIDS. SKIN CONTACT: RINSE AFFECTED AREA WITH
COP
IOUS AMOU NTS OF SOAP AND WATER FOR AT LEAST 5 MINUTES.
IMMEDIATELY REMOVE AND DISCARD CONTAMINATED CLOTHING. INHALATION:
REMOVE TO FRESH AIR IMMEDIATELY IF IRRITATION OCCURS. PROVIDE
OXYGEN OR ARTIFICIAL RESPI RATION OF REQUIRED. INGESTION:IF VICTIM
IS CONSCIOUS AND NOT CONVULSING, GIVE ONE OR TWO GLASSES OF WATER
OR MILK. DO NOT INDUCE VOMITING. IF LARGE AMOUNTS HAVE BEEN
INGESTED, GET MEDICAL ATTENTION IM MEDIATELY.

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

Flash Point Method:PMCC
Flash Point:=46.1C, 115.F
Lower Limits:.95% @ 93C
Upper Limits:7.59 @ 93C

Extinguishing Media:INORGANIC DRY CHEMICAL EXTINGUISHING COMPOUNDS.
CARBON DIOXIDE, HIGH EXPANSION CHEMICAL FOAMS.

Fire Fighting Procedures:FIRE FIGHTERS WEAR FULL EMERGENCY WITH
SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING (DO
NOT EXPOSE SKIN). CONTAINERS MAY DEVELOP PRESSURE AND BURST IF
EXPOSED TO HEAT OR FLAME. MOVE CONTAINERS FROM FIRE AREA

IF
POSSIBLE. COOL CONTAINERS WHICH HAVE BEEN EXPOSED TO FLAME BY
SPRAYING THEM WITH WATER.

Unusual Fire/Explosion Hazard:MATERIALS MAY INTURNESCE (FOAM) SEVERELY
UPON HEATING AND LOSS OF SOLVENT DURING EXPOSURE TO FLAMES.

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

Spill Release Procedures:ELIMINATE ALL IGNITION SOURCES. PLACE LEAKING
CONTAINERS IN A WELL VENTILATED AREA. WEAR PROTECTIVE CLOTHING AND
BREATHING APPARATUS. CONFINE SPILLED MATERIAL AND
ABSORB WITH SAND,
SAWDUST, EARTH OR OTHER AVAILABLE SOLIDS. DIKE SPILLS TO PREVENT
ENTRANCE INTO WATER TABLE OR WATER SYSTEMS. SWEEP AND PLACE
MATERIAL IN A SUITABLE CONTAINER.

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

Handling and Storage Precautions:FLAMMABLE! KEEP AWAY FROM HEAT,
SPARKS, AND OPEN FLAMES. DO NOT BREATHE VAPORS CONTAINERS. CLOSED
WHEN NOT IN USE. KEEP AWAY FROM CHILDREN.

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

Respiratory Protection:USE OF NIOSH/MSHA APPROVED RESPIRATOR FOR USE
WITH ORGANIC VAPORS (TC23C OR EQUIVALENT) IS REQUIRED DURING OPEN
HANDLING AND STANDARD APPLICATION. FULL-FACE, AIR SUPPLIER
RESPIRATORS MAY BE NECESSARY FOR EXTENSIVE SPRAY APPLICATIONS OR
FOR PERSONS PARTICULARLY SENSITIVE TO THE ODORS AND CHEMICALS BEING
USED.

Ventilation:LOCAL EXHAUST: USE EXHAUST FANS TO MAINTAIN EXPOSURE LEVELS
TO THE RESPECTIVE TLV'S FOR THE MATERIALS COMPONENTS.

Prote

ctive Gloves: BUTYL RUBBER, NITRILE RUBBER, LATEX, PVC, OR OTHER
CHEMICAL RESISTANT GLOVES

Eye Protection: PROTECTIVE GLASSES OR GOGGLES SHOULD BE WORN.

Other Protective Equipment: AS MAY BE NECESSARY TO PREVENT SKIN CONTACT.

Supplemental Safety and Health

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

Boiling Pt: >150.C, 302.F

B.P. Text: 150-160C

Vapor Pres: