

COURTAULDS AEROSPACE -- TITANATE SOLUTION PR148 ADHESION PROMOTER --
8030-00-560-8756

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

Product ID:TITANATE SOLUTION PR148 ADHESION PROMOTER

MSDS Date:03/23/1996

FSC:8030

NIIN:00-560-8756

Status Code:A

MSDS Number: CLRRJ

=== Responsible Party ===

Company Name:COURTAULDS AEROSPACE

Address:5430 SAN FERNANDO ROAD

Box:1800

City:GLENDALE

State:CA

ZIP:91209

Country:US

I

nfo Phone Num:818-240-2060

Emergency Phone Num:800-228-5635

Preparer's Name:ERNEST CARTER

Chemtec Ind/Phone:(800)424-9300

CAGE:0NYS9

=== Contractor Identification ===

Company Name:COURTAULDS AEROSPACE

Address:5430 SAN FERNANDO ROAD

Box:1800

City:GLENDALE

State:CA

ZIP:91209

Country:US

Phone:818-240-2060

CAGE:0NYS9

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

Ingred Name:DISTILLATES (PETROLEUM), SOLVENT-DEWAXED LIGHT NAPHTHENIC

CAS:64742-64-9

RTECS #:PY8039000

= Wt:20.

Ingred Name:ETHYL ACETATE
CAS:141-78-6
RTECS #:AH5425000
= Wt:20.
OSHA PEL:1400 MG/M3;400 PPM
ACGIH TLV:1440 MG/M3;400 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ETHYL KETONE
CAS:78-93-3
RTECS #:EL6475000
= Wt:20.
OSHA PEL:590 MG/M3;200 PPM
ACGIH TLV:590 MG/M3;200 PPM
ACGIH STEL:885 MG/M3;300 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ISOPROPYL ALCOHOL
CAS:67-63-0
RTECS #:NT8050000
= Wt:10.
OSHA PEL:980 MG/M3;400 PPM
ACGIH TLV:983 MG/M3;400 PPM
ACGIH STEL:1
230 MG/M3;500 PPM

Ingred Name:TOLUENE
CAS:108-88-3
RTECS #:XS5250000
= Wt:30.
OSHA PEL:SEE TABLE Z-2
ACGIH TLV:188 MG/M3;50 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:1-HEXANOL, 2-ETHYL-, TITANIUM(4+) SALT
CAS:1070-10-6
< Wt:5.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:EYES: MAY CAUSE MODERATE TO SEVERE
IRRITATION. SKIN: MAY CAUSE MODERATE TO SEVERE IRRIT

ATION, DRYING,

AND DEFATTING. INHALATION: MODERATE IRRITATION, DIZZINESS, HEADACHE, POSSIBLE NARCOSIS. INGESTION: MODERATE TO SEVERE IRRITATION OF GASTROINTESTINAL TRACT.

Effects of Overexposure:EYES:MAY CAUSE BURNING, TEARING, REDDENING. POSSIBLE TRANSIENT CORNEAL INJURY. SKIN: PROLONGED EXPOSURE MAY CAUSE DRYING AND CRACKING OF SKIN. POSSIBLE DERMATITIS. INHALATION: DROWSINESS, HEADACHE, NAUSEA, DIZZINESS AND UNCONSCIOUSNESS. MAY CAUSE LIVER OR KIDNEY DAMAGE. INGE

STION: MAY CAUSE FLUSHING

HEADACHE, DIZZINESS, MENTAL DEPRESSION, NAUSEA, VOMITING NARCOSIS, ANESTHESIA AND CAN BE FATAL.

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

First Aid:EYES: FLUSH WITH LUKE WARM WATER FOR 15 MINUTES. IF SYMPTOMS PERSIST, CONSULT A PHYSICIAN. SKIN: WASH WITH SOAP AND WATER, CONSULT A PHYSICIAN. INHALATION:REMOVE TO FRESH AIR. IF SYMPTOMS ARE PRESENT CONSULT A PHYSICIAN.

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

Flash Point Method:PMCC

Flash Point:=-5.C, 23.F

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

Fire Fighting Procedures:USE WATER TO COOL HEAT EXPOSED CONTAINERS. USE COMPLETE PERSONAL PROTECTION.

Unusual Fire/Explosion Hazard:HIGH TEMPERATURE MAY CAUSE PRESSURE BUILD UP IN CLOSED CONTAINER.

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

Spill Release Procedures:WEAR AIR SUPPLIED RESPIRATOR FOR MAJOR UNVENTILATED SPILL. REMOV

E ALL IGNITION SOURCES. COVER WITH

ABSORBENT. SCOOP INTO CONTAINER. CLEAN UP RESIDUE WITH A SUITABLE SOLVENT.

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

Handling and Storage Precautions:WASH THOROUGHLY AFTER HANDLING AND BEFORE SMOKING OR EATING. AVOID INGESTION.

Other Precautions:EMPTY DRUMS MAY CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR DRUM. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND MAY COLLECT IN LOW OR CONFINED AREA

S.

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

Respiratory Protection:WHEN SPRAYING OR APPLYING IN ANY CIRCUMSTANCES
LIKELY TO PRODUCE AIRBORNE LEVEL OF HAZARDOUS INGREDIENT IN EXCESS
OF TLV, USE AN ORGANIC VAPOR CARTRIDGE OR AIR SUPPLIED RESPIRATOR.

Ventilation:GENERAL VENTILATION TO MAINTAIN VAPORS BELOW PEL.

Protective Gloves:SOLVENT RESISTANT GLOVES.

Eye Protection:CHEMICAL GOGGLES OR FULL FACE SHIELD.

Other Protective Equipment:KEEP CONTAINER TIGHTLY CLOSED

. DO NOT STORE

ABOVE 120 DEG F. GROUNDING AND BONDING PROCEDURE SHOULD BE FOLLOWED
WHEN TRANSPORTING THIS MATERIAL.

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:171-480 DEG F

Vapor Density:HEAVIER

Spec Gravity:0.82

VOC Pounds/Gallon:802

VOC Grams/Liter:6.83

Appearance and Odor:TRANSPARENT BLUE LIQUID.

Percent Volatiles by Volume:102.8%

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

Stabil

ity Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NONE KNOWN.

Hazardous Decomposition Products:OXIDES OF CARBON AND CHLORINE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:EPA NO D-001 AND D-035 HAZARDOUS WASTE. DISPOSE
OF SPILLAGE IN COMPLIANCE WITH FEDERAL AND STATE REGULATIONS.

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