

TENNANT CO -- TENNANT STS (420) STD. TRAFFIC TWO-COAT #08511 -- 8010-00-550-4261  
===== Product Identification =====

Product ID:TENNANT STS (420) STD. TRAFFIC TWO-COAT #08511

MSDS Date:01/01/1992

FSC:8010

NIIN:00-550-4261

MSDS Number: BTSXF

=== Responsible Party ===

Company Name:TENNANT CO

Address:701 N LILAC DR

Box:1452

City:MINNEAPOLIS

State:MN

ZIP:55440-1452

Country:US

Info Phone Num:612-540-138

1

Emergency Phone Num:612-544-5163

Preparer's Name:NORM GILL

CAGE:59500

=== Contractor Identification ===

Company Name:TENNANT CO

Address:701 N LILAC DR

Box:1452

City:MINNEAPOLIS

State:MN

ZIP:55440-1452

Country:US

Phone:612-540-1556/800-553-8033

CAGE:59500

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

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)

CAS:1330-20-7

RTECS #:ZE2100000

Fraction by Wt: 50-60%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM

ACGIH TLV:100 PP

M/150STEL;9394  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:URETHANE PREPOLYMER  
CAS:9040-80-6  
Fraction by Wt: 40-50% %  
Other REC Limits:NONE RECOMMENDED

Ingred Name:TOLUENEDIISOCYANATE (MIXED ISOMERS) (SARA III) (HZD)  
CAS:26471-62-5  
RTECS #:NQ9490000  
Fraction by Wt: < 1%  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:0.005PPM/0.02STEL;94  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT  
AS A WHOLE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:CONTAINS MATERIALS WHICH MAY CAUSE  
SKIN IRRITATION. CONTAINS MATERIALS WHICH MAY CAUSE EYE IRRITATION  
AND EYE INJURY. CONTAINS MATERIAL WHICH CAN CAUSE A BURNING  
SENSATION, VOMITING, DIARRHEA, DROWSINESS AND TISSUE DAMAGE.  
ASPIRATION CAN CAUSE CHEMICAL PNEUMONIA. INHALATION MAY CAUSE  
ANESTHETIC EFFECTS.

Explanation of

Carcinogenicity:TOLUENE 2,4/2,6-DIISOCYANATE (TDI) IS  
LISTED AS A CARCINOGEN BY NTP AND IARC.

Effects of Overexposure:EYE IRRITATION,EYE INJURY, SKIN IRRITATION,  
NAUSEA, VOMITING, DIARRHEA, BURNING SENSATION IN GI TRACT, TISSUE  
DAMAGE IN GI TRACT, CHEMICAL PNEUMONIA, RESPIRATORY TRACT  
IRRITATION, ACUTE NERVOUS SYSTEM DEPRESSION, HEADACHE, DIZZINESS,  
STAGGERING GAIT, CONFUSION AND UNCONSCIOUSNESS. CHRONIC: PERMANENT  
BRAIN, CNS INJURY.

Medical Cond Aggravated by Exposure:

NONE SPECIFIED BY MANUFACTURER.

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

First Aid: EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Flash Point Method: SCC

Flash Point: 80.0F, 26.7C

Lower Limits: 1.0 %

Upper Limits: 7.6 %

Extinguishing Media: FOAM, DRY CHEMICAL, CARBON DIOXIDE

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: KEEP CONTAINER TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND FLAME. CLOSED

CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

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

Spill Release Procedures: ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT. CONTAIN SPILL. REMOVE WITH INERT ABSORBENT. SCRUB WITH SOAP AND WATER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions: STORE IN A COOL, DRY PLACE WITH

ADEQUATE VENTILATION. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS 1C FLAMMABLE

Other Precautions: DO NOT TAKE INTERNALLY. AVOID PROLONGED CONTACT WITH SKIN. CONTAMINATED CLOTHING SHOULD BE REMOVED IMMEDIATELY. AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES. DO NOT SPRAY APPLY THIS PRODUCT.

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

Respiratory Protection: WEAR A CHEMICAL RESPIRATOR APPROVED FOR ORGANIZATION

NIC

VAPORS (NIOSH 23C OR EQUIVALENT) DURING THE APPLICATION AND UNTIL WORK AREA HAS BEEN EXHAUSTED OF ALL VAPORS.

Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION TO MAINTAIN EXPOSURE LEVELS.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES OR GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO AVOID SKIN CONTACT. AN EMERGENCY EYE WASH STATION AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT

AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

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

HCC:F3

Boiling Pt:B.P. Text:295F,146C

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

Vapor Pres:6 MM HG

Vapor Density:> 1

Spec Gravity:0.98

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

S

solubility in Water:NOT SOLUBLE

Appearance and Odor:CLEAR LIQUID, AROMATIC ODOR

Percent Volatiles by Volume:55 %

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HEAT, OPEN FLAME. DO NOT APPLY TO HOT SURFACES.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND NITROGEN OXIDES IN VARYING QUANTITIES.

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

=====

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and

disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.