

TENNANT CO -- 08684 698 NEUTRAL SRS -- 7930-01-397-1376

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

Product ID:08684 698 NEUTRAL SRS
MSDS Date:07/20/1995
FSC:7930
NIIN:01-397-1376
MSDS Number: BZXWM
=== Responsible Party ===
Company Name:TENNANT CO
Address:701 N LILAC DR
Box:1452
City:MINNEAPOLIS
State:MN
ZIP:55422-5000
Country:US
Info Phone Num:612-738-9734/612-540-1381
Emergency Phone Num:612-544-5163/61
2-540-1381
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:SODIUM HYDROXIDE, CAUSTIC SODA, LYE
CAS:1310-73-2
RTECS #:WB4900000
Fraction by Wt: 1%
Other REC Limits:2MG/M3 CEILING NIOSH
OSHA PEL:2 MG/CUM
ACGIH TLV:2 MG/CUM CEILING
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LB

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Ingred Name:2-BUTOXYETHANOL (ETHYLENE GLYCOL MONOBUTYL ETHER), BUTYL
CELLOSOLVE, BUTYL GLYCOL, GLYCOL ETHER EB * 96-2 *
CAS:111-76-2
RTECS #:KJ8575000
Fraction by Wt: 5-10%
Other REC Limits:25 PPM (SKIN)
OSHA PEL:25 PPM (SKIN)
ACGIH TLV:25 PPM (SKIN)

Ingred Name:POTASSIUM ROSIN SOAP
CAS:61790-50-9
Fraction by Wt: 1-5%

Ingred Name:-1-METHYL-4-(1-METHYLETHENYL)CYCLOHEXENE, CARVENE, CINENE,
D-LIMONE (ANIMAL LIMITED EVIDENCE, NTP & IARC GROUP 3) *96-2*
CAS:5989-27-5
RTECS #:GW6360000
F
raction by Wt: 1-10%

Ingred Name:5(6)-CARBOXY-4-HEXYL-2-CYCLOHEXENE-1-OCTANOIC ACID, SODIUM
SALT
CAS:68127-35-5
Fraction by Wt: 5-15%

Ingred Name:NONYLPHENOL POLYOXYETHYLENE ETHER; POLYOXYETHYLENE
NONYLPHENOL; TERGITOL NPX; TRITON N-100; NONIONIC SURFACTANT
96-2
CAS:9016-45-9
RTECS #:MD0900000
Fraction by Wt: 1-5%

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000

Ingred Name:DIETHANOLAMINE OLEATE
CAS:13961-86-9
RTECS #:RK0880000
Fraction by Wt: 1-5%

Ingred Name:GLYCOL ETHERS,

DIETHYLENE GLYCOL, 2,2-OXYBISETHANOL

CAS:111-46-6

RTECS #:ID5950000

Fraction by Wt: 8%

Ingrid Name:ETHYLENE OXIDE (SUSPECTED HUMAN CARCINOGEN BY ACGIH, IARC,
& OSHA; IARC GROUP 1; SUSP CARCINOGEN BY NTP) *96-2*

CAS:75-21-8

RTECS #:KX2450000

ACGIH TLV:1.8 MG/CUM (A2)

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

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

LD50 LC50 Mixture:ORAL LD50(RABBIT): 300 MG/KG (SEE SUPP)

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

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

Health Hazards Acute and Chronic:SKIN: CAN CAUSE BURNS. EYES: SEVERE
IRRITATION & POSSIBLE CORNEAL INJURY. INGESTION: MAY CAUSE BURNING
& SEVERE INFLAMMATION TO MUCOUS MEMBRANES. INHALATION: MAY BURN
NASAL PASSAGES. ETHYLENE OXIDE: A TRACE AMOUNT MAY EXIST AS A
CONTAMINANT IN THE NONIONIC SURFACTANT.

Explanation of Carcinogenicity:SEE INGREDIENTS.

Effects of Overexposure:BURNS, IRRITATION, INFLAMMATION, BURNING
SENSATIO

N, GASTRIC UPSET, DIARRHEA, HEADACHE.

Medical Cond Aggravated by Exposure:2-BUTOXYETHANOL: PRE-EXISTING BLOOD
DISORDERS.

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

First Aid:SKIN: WASH IMMEDIATELY W/MILD SOAP & WATER. RINSE THOROUGHLY
W/COOL WATER. PAT DRY. DON'T RUB. EYES: FLUSH IMMEDIATELY W/WATER
FOR 15 MINS. INGESTION: DON'T ATTEMPT TO INDUCE VOMITING, GIVE 2
GLASSES OF WATER. INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL
ATTENTION IN ALL CA
SES.

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

Spill Release Procedures:ABSORB W/INERT MATERIAL. SWEEP/SCOOP UP & PUT
IN DISPOSAL CONTAINER. FLUSH AREA W/WATER; PREVENT WASHINGS FROM
ENTERING WATERWAYS.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE. KEEP FROM
FREEZING. STORE SEPARATE FROM OXIDIZERS. AVOID FREE FALL OF LIQUID
IN EXCESS OF A FEW INCHES.

Other Precautions:

DON'T TAKE INTERNALLY. AVOID CONTAMINANT OF SKIN. USE
W/ADEQUATE VENTILATION.

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

Respiratory Protection:USE W/ADEQUATE VENTILATION.
Ventilation:LOCAL EXHAUST.
Protective Gloves:IMPERVIOUS/RUBBER
Eye Protection:CHEMICAL SPLASH GOGGLES
Other Protective Equipment:EYE FOUNTAIN.
Work Hygienic Practices:REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE
REUSE. DON'T WEAR CONTACT LENSES WHEN WORKING W/THIS MATERIAL.
Supplemental Safety
and Health
THE ORAL LD50 INFORMATION IS FOR 2-BUTOXYETHANOL.

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

HCC:B3
Boiling Pt:B.P. Text:212F
Melt/Freeze Pt:M.P/F.P Text:32F
Vapor Density:>1
pH:9-9.5
Evaporation Rate & Reference:FASTER THAN N-BU AC
Solubility in Water:COMPLETE
Appearance and Odor:CLEAR DARK AMBER LIQUID W/CITRUS ODOR
Percent Volatiles by Volume:82/WT

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

Stability Indicator/Materials to
Avoid:YES
STRONGLY ACIDIC MATERIALS & STRONG OXIDIZERS.
Stability Condition to Avoid:FREEZING
Hazardous Decomposition Products:CO2, CO, NITROGEN OXIDES.

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

Waste Disposal Methods:DISPOSE OF IAW/FEDERAL, STATE & LOCAL
REGULATIONS.

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