

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

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

Product ID:08684 698 NEUTRAL SRS

MSDS Date:01/30/1991

FSC:7930

NIIN:01-397-1376

MSDS Number: BQJSX

=== 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:612-540-1381

Emergency Phone Num:612-544-5163 OR 612-738-9734

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: 1-5%

Other REC Limits:2MG/M3 CEILING NIOSH

OSHA PEL:2 MG/M3

ACGIH TLV:C 2 MG/M3; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred

Name:N,N-DI(2-HYDROXYETHYL)OLEAMIDE

CAS:93-83-4

RTECS #:RG2240000

Fraction by Wt: 1-5%

Ingred Name:2-BUTOXYETHANOL (ETHYLENEGLYCOL MONOBUTYL ETHER), BUTYL  
CELLOSOLVE, BUTYL GLYCOL, GLYCOL ETHER EB

CAS:111-76-2

RTECS #:KJ8575000

Fraction by Wt: 1-10%

Other REC Limits:25 PPM (SKIN)

OSHA PEL:S, 50 PPM

ACGIH TLV:S, 25 PPM; 9293

Ingred Name:TALL OIL ACIDS, SODIUM SALT \*92-4\*

CAS:61790-45-2

Fraction by Wt: 1-5%

Ingred Name:CARVENE; CYCLOHEXENE, 1-METHYL-4-(1-METHYLETHENYL), CITRUS  
TERPENE,

D-LIMONENE

CAS:5989-27-5

RTECS #:GW6360000

Fraction by Wt: 1-10%

Ingred Name:DICARBOXYLIC ORGANIC ACID ,ACRYLINOLEIC ACID \*92-4\*

CAS:53980-88-4

Fraction by Wt: 5-15%

Ingred Name:NONYLPHENOXYPOLY-(ETHYLENEOXY) ETHANOL, NP-9

CAS:26027-38-3

RTECS #:MD0906000

Fraction by Wt: 1-5%

Ingred Name:TERGITOL NP-14

CAS:9016-45-9

RTECS #:WZ4200000

Fraction by Wt: 1-5%

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 60-70%

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

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LD50 LC50 Mixture:ORAL LD50 (RAT): 140-340 MG/KG (SEE SUP)  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SKIN: BURNS. EYES: SEVERE IRRITATION,  
INFLAMMATION W/POSSIBLE EYE INJURY. INGESTION: BURNING SENSATION,  
GASTRIC UPSET, DIARRHEA, SEVERE INFLAMMATION TO MUCOUS MEMBRANES.  
INHALATION: SLIGHT HEADACHE, BURNS TO NASAL PASSAGES.  
Explanation of Carcinogenicity:NONE

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

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

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

Flash Point Method:SCC

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

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

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. KEEP FROM  
FREEZING. USE W/ADEQUATE VENTILATION.  
Other Precautions:DON'T TAKE INTERNALLY. AVOID CONTAMINATION OF SKIN.  
  
AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES. AVOID  
BREATHING SPRAY OR MIST.

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

Respiratory Protection:IF USED IN A SPRAY OPERATION, WEAR A NIOSH TC  
23C APPROVED RESPIRATOR.  
Ventilation:LOCAL EXHAUST  
Protective Gloves:IMPERVIOUS (RUBBER)  
Eye Protection:CHEMICAL SPLASH GOGGLES  
Other Protective Equipment:PROTECTIVE CLOTHING  
Work Hygienic Practices:REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE  
REUSE.  
Supplement

al Safety and Health

DENSITY: 1 G/ML. LD50 INFORMATION IS FOR SODIUM HYDROXIDE.

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

HCC:B3

Boiling Pt:B.P. Text:212F/100C

Melt/Freeze Pt:M.P/F.P Text:32F/0C

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, CITRUS ODOR

Percent Volatiles by Volume:82/WT

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

Stabili

ty Indicator/Materials to Avoid:YES

STRONGLY ACIDIC MATERIALS & STRONG OXIDIZERS

Stability Condition to Avoid:FREEZING

Hazardous Decomposition Products:CO, CO2, NITROGEN OXIDES

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/FEDERAL, STATE, &  
LOCAL REGULATIONS.

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