

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 =====

=====

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

=====

==== 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

=====

===== 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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department
of Defense. The U

nited 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.