

MSDS NO.: 7 MATERIAL SAFETY DATA SHEET
 PART NO.: 4300 SERIES FORM #7-JMD
 PRODUCT NAME: SPILFYTER FOR HAZARDOUS MATERIALS 56616-090 56616-126
 -KOLORSAFE LIQUID BASE NEUTRALIZER 56609-204
 CAS NO.: 0
 CHEMICAL NAME: LIQUID BASE NEUTRALIZER

 SECTION I - GENERAL INFORMATION

MANUFACTURER: JV MANUFACTURING CO, INC.
 ADDRESS: 963 ASHWAUBENON STREET
 GREEN BAY, WI 54304
 EMERGENCY TELEPHONE NO.: (800)424-9300
 INFORMATION TELEPHONE NO.: (800)334-9092
 DATE PREPARED: 7/01/93 REPLACES ALL PREVIOUS MSDS VERSIONS.

HMS RATINGS: NFPA:
 HEALTH:1 HEALTH:1
 FIRE:1 FIRE:1
 REACTIVITY:1 REACT.:1
 PERSONALPROTECTION:X SPEC.HAZ.

 SECTION 2 - HAZARDOUS INGREDIENTS

CAS #	HAZARDOUS COMPONENT	NTP	IARC	SUB- PART/Z	SARA 313	OSHA PEL	ACGIH TLV	OTHER RECOMMENDED	LIMITS %
102-71-6	TRIETHANOLAMINE	N	N	N	N	NE	NE	1% WHMIS	<10.0
111-42-2	DIETHANOLAMINE	N	N	Y	Y	NE	13MG/M3	1% WHMIS	<3.0
77-92-9	CITRIC ACID	N	N	N	N	NE	NE	1% WHMIS	<50.0
7732-18-2	WATER	N	N	N	N	NE	NE	NE	<36.0
76-61-9	THYMOL BLUE	N	N	N	N	NE	NE	NE	<1.0

 SECTION III - PHYSICAL/ CHEMICAL CHARACTERISTICS

BOILING POINT: 101.3 SPECIFIC GRAVITY(H2O=1): 1.22222
 VAPOR PRESSURE(MM HG): NT MELTING POINT: NT
 VAPOR DENSITY(AIR=1): NT EVAPORATION RATE(BUTYL ACETATE=1): NT
 SOLUBILITY IN WATER: COMPLETE
 APPEARANCE AND ODOR: RED LIQUID, AMMONIA ODOR
 OTHER INFORMATION: PH...2.5 VISCOSITY...LOW PERCENT VOLATILES...50
 FREEZING POINT...70 F

 SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD: NT FLAMMABLE LIMITS: LEL: NA UEL: NA
 EXTINGUISHING MEDIA: NON-FLAMMABLE AS SUPPLIED. WATER SPRAY, DRY CHEMICAL, FOAM
 ,CO2, IF THE NEED EXISTS. WATER OR FOAM MAY CAUSE FROTHING. USE WATER TO COOL
 FIRE-EXPOSED CONTAINER. IF A LEAK OR SPILL HAS NOT IGNITED,USE WATER SPRAY TO
 DISPERSE THE VAPORS & TO PROVIDE PROTECTION TO PERSONS ATTEMPTING TO STOP LEAK.
 SPECIAL FIRE FIGHTING PROCEDURES:FOR LARGE FIRE OR IN CONTAINED AREA, USE NIOSH
 /MSHA APPROVED SCBA WHEN EXPOSED TO SMOKE & DURING CLEANUP & SALVAGE OPERATIONS
 UNUSUAL FIRE & EXPLOSION HAZARDS: NONE KNOWN

****SECTION V - REACTIVITY DATA*** STABILTY: STABLE INCOMPATIBILITY:
 NITRITES, CYANIDES, SULFIDE SOLUTIONS. DO NOT ADD OR FORMULATE W/ NITRITES
 THIS PRODUCTS CONTAINS AMINES WHICH CAN COMBINE W/NITRITES TO FORM NITROSAMINES.
 MANY NITROSAMINES HAVE BEEN SHOWN TO CAUSE CANCER IN LAB ANIMALS. HAZ. DECOMP.
 OF PRODUCTS:THERAML DECOMP. NITROGEN, CO,CO2,AMMONIA, IRRITATING ALDEHYDES &
 KETONES AMY BE FORMED ON BURNING IN A LIMITED AIR SUPPLY.
 HAZARDOUS POLYMERIZATION: MAY OCUUR..NO WILL NOT OCCUR..YES

*****SECTION VI - HEALTH HAZARD DATA*****

ROUTES OF ENTRY: EYES..YES SKIN..YES INHALATION..YES INGESTION..YES
 HEALTH HAZARDS (ACUTE AND CHRONIC):
 EFFECTS OF OVEREXPOSURE: ACUTE(IMMEDIATE): EYES-MAY CAUSE IRRITATION, EXPERIENC
 ED AS MILD DISCOMFORT & SEEN AS SLIGHT REDNESS OF THE EYE. SKIN-NO ADVERSE
 EFFECTS EXPECTED FROM ABSORPTION OF MATERIALS THROUGH SKIN. BRIEF CONTACT MAY
 CAUSE SLIGHT IRRITATION. PROLONGED CONTACT AS W/CLOTHING WET W/ MATERIAL MAY
 CAUSE MORE SEVERE IRRITATION & DISCOMFORT SEEN AS LOCAL REDNESS & SWELLING.
 INHALATION: VAPORS OR MISTS IN EXCESS OF PERMISSIBLE CONCENTRATIONS, OR IN UN-
 USUALLY HIGH CONCENTRATIONS GENERATED FROM SPRAYING, HEATING OR FROM EXPOSURE
 IN POORLY VENTILATED OR CONFINED SPACES, MAY CAUSE IRRITATION OF NOSE & THROAT,
 HEADACHE, NAUSEA, & DROWSINESS. INGESTION: NO ADVERSE EFFECTS EXPECTED. IF
 MORE THAN SEVERAL MOUTHFULS ARE SWALLOWED, ABDOMINAL DISCOMFORT, NAUSEA, AND

DIARRHEA MAY OCCUR.

CHRONIC (DELAYED): NO ADVERSE EFFECTS ANTICIPATED.

SIGNS & SYMPTOMS OF EXPOSURE: SEE HEALTH HAZARDS ABOVE FOR SIGNS & SYMPTOMS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: BECAUSE OF ITS IRRITATING PROPERTIES, REPEATED SKIN CONTACT MAY AGGRAVATE EXISTING DERMATITIS. REPEATED OVEREXPOSURE MAY AGGRAVATE EXISTING KIDNEY DISEASE.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART WHILE FLUSHING TO RINSE ENTIRE SURFACE OF EYE & LIDS W/WATER. SEEK MEDICAL ATTENTION.

SKIN: REMOVE CONTAMINATED CLOTHING. WASH W/ PLENTY OF SOAP & WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, GIVE 2 GLASSES OF WATER (16 OZ.). CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON. OTHER HEALTH WARNINGS: REMOVE & DRY CLEAN OR LAUNDRY CLOTHING SOAKED OR SOILED W/ THIS MATERIAL SEPARATELY BEFORE REUSE. INFORM INDIVIDUALS RESPONSIBLE FOR CLEANING CLOTHING THE POSSIBLE HAZARDS ASSOCIATED W/CONTAMINATED CLOTHING.

EXPOSURE LIMITS:

TRIETHANOLAMINE (ETHANOL, 2, 2', 2''-NITRILOTRIS)	TWA 5MG/M3 (ACGIH)
DIETHANOLAMINE (ETHANOL, 2, 2'-IMINOBIIS)	TWA 3PPM (OSHA) TWA 3PPM (ACGIH)

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. AVOID BREATHING VAPOR. USE SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED AIR FOR LARGE SPILLS OR IN CONFINED AREAS. CONTAIN LEAKING OR SPILLED MATERIAL W/ CHEMICALLY RESISTANT SORBENT MATERIALS. NEUTRALIZE SPILL W/ SODA ASH OR SODIUM BICARBONATE. ABSORB NEUTRALIZED LIQUID W/CHEMICALLY RESISTENT SORBENT MATERIAL. PLACE SORBED MATERIALS IN APPROVED DISPOSAL CONTAINER. SCRUB THE AREA WITH DETERGENT & WATER.

WASTE DISPOSAL METHOD: DISPOSE OF ORIGINAL (VIRGIN) PRODUCT IN ACCORDANCE W/FEDERAL, STATE, & LOCAL REGULATIONS. ONCE THIS PRODUCT REACTS W/ A CHEMICAL IT WILL CONTAIN THE BY-PRODUCTS OF THE REACTION, WHICH SHOULD BE DISPOSED OF ACCORDING TO ALL FEDERAL, STATE, & LOCAL REGULATIONS FOR THESE BY-PRODUCTS.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:

STORAGE: AVOID HIGH HEAT AND FREEZING CONDITIONS. KEEP CONTAINER TIGHTLY CLOSED. SUITABLE FOR GENERAL CHEMICAL STORAGE AREA.

WARNING: THIS PRODUCT MUST BE PROPERLY STORED. IMPROPER STORAGE IS MISUSE. IF THE PRODUCT IS STORED AT TEMPS IN EXCESS OF 100 F, BELOW 70 F, OR AT ELEVATION OVER 5000 FEET, GAS MAY FORM. GAS WILL BULGE THE PACKAGE. IF BULGING OCCURS, TAKE THE PACKAGE OUTDOORS. WEAR PROTECTIVE EQUIPMENT, INCLUDING FACE SHIELD, SLOWLY OPEN THE CONTAINER TO VENT GAS.

WORK/HYGIENIC PRACTICES:

WORKERS SHOULD WASH EXPOSED SKIN SEVERAL TIMES DAILY WITH SOAP AND WATER.

OTHER PRECAUTIONS: NONE KNOWN.

SECTION VIII - CONTROL MEASURES

VENTILATION REQUIREMENTS:

LOCAL EXHAUST.....AS APPROPRIATE

MECHANICAL (GENERAL).....AS APPROPRIATE

SPECIAL.....NONE

OTHER.....NONE

PERSONAL PROTECTIVE EQUIPMENT:

EYE AND FACE PROTECTION

WEAR AN ANSI Z87.1-1989 APPROVED CHEMICAL GOGGLES AND/OR FACE SHIELD SHOULD BE WORN WHEN USING THIS PRODUCT.

PROTECTIVE GLOVES & CLOTHING: SUITABLE CHEMICALLY RESISTENT GLOVES & PROTECTIVE CLOTHING SHOULD BE WORN WHILE WORKING WITH THIS PRODUCT IN ACCORDANCE WITH 29 CFR 1910-132 - PERSONAL PROTECTIVE EQUIPMENT.

RESPIRATORY PROTECTION: IF A VAPOR OR MIST IS GENERATED USE NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR W/ APPROPRIATE CHEMICAL CARTRIDGE OR CANISTER. SELF CONTAINED BREATHING APPARATUS (SCBA) SHOULD BE USED FOR LARGE-SCALE OPERATIONS. ANY RESPIRATOR WORN IN CONJUNCTION W/ THIS PRODUCT SHOULD BE WORN IN CONJUNCTION W/ 29 CFR 1910.134-RESPIRATORY PROTECTION. SEE SECTION VI FOR COMPONENT PERMISSIBLE EXPOSURE LIMITS.

OTHER PROTECTIVE EQUIPMENT: MAINTAIN SAFETY & FACE FOUNTAIN IN THE WORK AREA.
HAVE OXYGEN AVAILABLE.

SECTION IX - ADDITIONAL INFORMATION

ADDITIONAL MANUFACTURER WARNINGS:
REGULATORY INFORMATION

TSCA INVENTORY STATUS

TRIETHANOLAMINE-LISTED
DIETHANOLAMINE -LISTED

CITRIC ACID-LISTED
THYMOL BLUE-LISTED

SARA TITLE III

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE LIST: NOT LISTED

SECTION 313 TOXIC CHEMICAL: DIETHANOLAMINE 111-42-2 <3.0 PERCENT

SECTION 311 HAZARD CATEGORIZATION: IMMEDIATE(ACUTE)...YES DELAYED...NO

FIRE...NO REACTIVE...NO SUDDEN RELEASE OF PRESSURE...NO

US EPA CERCLA SEC. 102(A) HAZARDOUS SUBSTANCES: DIETHANOLAMINE 111-42-2 <2.0%
RQ(LBS) 1.0

RCRA HAZARDOUS WASTE: NOT LISTED

STATE/INT'L RIGHT-TO-KNOW REGULATION: CANADA'S WHMIS -TRIETHANOLAMINE 1%

-DIETHANOLAMINE 1%

-CITRIC ACID 1%

CLASS D, DIVISION2, SUBDIVISION B -SKIN & EYE IRRITANT

IMPURITIES: THIS PRODUCT MAY CONTIAN UP TO, BUT NOT MORE THAN THE FOLLOWING LEV
ELS OF IMPURITIES FROM THE CITRIC ACID:

ARSENIC 3PPM LEAD 10PPM HEAVY METALS(AS PB, 40PPM)

TRANSPORTATION INFORMATION: DOT: PROPER SHIPPING NAME: CORROSIVE LIQUIDS, N.O.S

TECHNICAL NAME:(CONTAINS TRIETHANOLAMINE & CITRIC ACID) HAZARD CLASS:8

IDENTIF. #: UN1760 PACKAGING GROUP: III LABEL REQUIRED: CORROSIVE

DOT EMERGENCY RESPONSE GUIDEBOOK: GUIDE 60

IMDG: ND

IATA: SAME AS DOT

TDG: PROPER SHIPPING NAME:CORROSIVE LIQUIDS,N.O.S. HAZARD CLASS: 8,(9.2)

TECHNICAL NAME: (CONTAINS TRIETHANOLAMINE & CITRIC ACID)

SPECIAL PROVISIIONS: 109 IDENTIFICATION #: UN1760

PACKAGING GROUP: III LABEL REQUIRED: CORROSIVE

OTHER PRECAUTIONS AND COMMENTS:

ABBREVIATIONS:NA..NOT APPLICABLE ND..NOT DETERMINED NE..NOT ESTABLISHED

DOT - US DEPT OF TRANSPORTATION IATA- INTL AIR TRANSPORT ASSN

IMDG-INTL MARITIME ORG DANGEROUS GOODS CODE TDG- TRANSPORTATION OF DANGEROUS

WHMIS: WORKERS HAZ MATER.INFO SYSTEMS(CANADA) GOODS(CANADA)

NOTE!!! THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED ONLY FOR THE
4300 SERIES SPILFYTER KOLORSAFE LIQUID BASE NEUTRALIZER ITSELF.

BE VERY CAREFUL TO REVIEW THE MSDS SHEET FOR THE CHEMICAL THIS LIQUID NEUTRAL-
IZER IS BEING USED WITH, AND TAKE PRECAUTIONS AS DESCRIBED.

THE INFORMATIN ACCUMULATED HEREIN HAS BEEN COMPILED FROM SOURCES BELIEVED TO BE
RELIABLE AND IS ACCURATE TO THE BEST OF OUR ABILITY. HOWEVER, JV MANUFACTURING
CO INC. CANNOT GIVE GUARANTEES REGARDING THE INFORMATION FROM SOURCES, AND
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YOU HAVE BEEN PROVIDED DATA, PRODUCT LABELS, MSDS, AND OTHER INFORMATION ABOUT
SPILFYTER PRODUCTS.

SOME SPILFYTER PRODUCTS ARE HAZARDOUS. INFORMATION ABOUT PRODUCTS THAT ARE
HAZARDOUS IS FURNISHED WITHOUT GUARANTEE.

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SPILFYTER PRODUCTS.

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THE INFORMATION PROVIDED ABOUT HAZARDOUS MATERIALS IS BELIEVED TO BE CORRECT.

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IF YOU RESELL SPILFYTER PRODUCTS, YOU MUST BY LAW, FURNISH YOUR CUSTOMERS A COPY OF MATERIAL SAFETY DATA SHEETS, AND HANDLING INSTUCTIONS.

YOU ARE ALSO REQUIRED BY LAW TO INSURE THAT ALL SPILFYTER PRODUCTS ARE PROPERLY SHIPPED.

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END MSDS