

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: 6  
PART NUMBER: 4100SERIES  
PRODUCT NAME: SPILFYTER (R) FOR HAZARDOUS MATERIALS (TM) - KOLORSAFE (R)  
LIQUID ACID NEUTRALIZER  
CAS NUMBER: - -0  
CHEMICAL NAME: LIQUID ACID NEUTRALIZER

SECTION I

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MANUFACTURER: JV MANUFACTURING CO., INC.  
ADDRESS: 963 ASHWAUBENON STREET  
GREEN BAY, WI 54304  
EMERGENCY TELEPHONE NUMBER: (800) 424-9300  
INFORMATION TELEPHONE NUMBER: (414) 337-4944  
DATE PREPARED: 05/03/95 REPLACES ALL PREVIOUS MSDS VERSIONS

HMS RATINGS:  
HEALTH: 1  
FIRE: 1  
REACTIVITY:  
PERSONAL PROTECTION: X

NFPA:  
HEALTH: 1  
FIRE: 1  
REACTIVITY: 0

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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CAS NUMBER HAZARDOUS COMPONENT NTP IARC SUB- SARA  
PART/Z 313 OSHA PEL ACGIH TLV %  
102-71-6 TRIETHANOLAMINE N N N N NE 5MG/M3 <50  
72-48-0 ALZERIN N N N N NE NE <1  
7732-18-5 WATER N N N N NE NE >49

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

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BOILING POINT: 103.2 C  
VAPOR PRESSURE (MM HG.): NT  
VAPOR DENSITY (AIR=1): NT  
SOLUBILITY IN WATER: COMPLETE  
APPEARANCE AND ODOR: PURPLE LIQUID, AMMONIA ODOR  
SPECIFIC GRAVITY (H2O=1): 1.09405  
MELTING POINT: NT  
EVAPORATION RATE: NT  
OTHER INFORMATION: PH: 11.5 FREEZING POINT: -4 F (-20 C)  
PERCENT OF THIS PRODUCT READILY VAPORIZABLE BY VOLUME (WATER=100): 100%

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SECTION IV - FIRE AND EXPLOSION DATA

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FLASH POINT: NT FLAMMABLE LIMITS: LEL: NT UEL: NT

EXTINGUISHING MEDIA: NON-FLAMMABLE AS SUPPLIED. WATER SPRAY, DRY CHEMICAL,  
FOAM, CARBON DIOXIDE, IF THE NEED EXISTS.

SPECIAL FIRE FIGHTING PROCEDURES: FOR LARGE FIRES, USE NIOSH/MSHA APPROVED  
SELF-CONTAINED BREATHING APPARATUS (SCBA).

UNUSUAL FIRE FIGHTING PROCEDURES: NONE KNOWN.

SECTION VI - REACTIVITY DATA

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STABILITY CONDITIONS TO AVOID:  
UNSTABLE: NO SEE SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE.  
STABLE: YES

INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: THERMAL DECOMPOSITION NITROGEN, CARBON MONOXIDE (CO), CARBON DIOXIDE (CO2), AMMONIA, IRRITATING ALDEHYDES AND KETONES MAY BE FORMED ON BURNING IN A LIMITED AIR SUPPLY.

HAZARDOUS POLYMERIZATION  
MAY OCCUR: NO  
WILL OCCUR: YES

SECTION VI - HEALTH HAZARD DATA

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ROUTE(S) OF ENTRY: EYES...YES SKIN...YES INHALATION...YES INGESTION...YES

HEALTH HAZARDS (ACUTE AND CHRONIC):

EFFECTS OF OVEREXPOSURE

ACUTE (IMMEDIATE)

EYES: MAY CAUSE IRRITATION, EXPERIENCED AS MILD DISCOMFORT AND SEEN AS SLIGHT REDNESS OF THE EYES.

SKIN: NO ADVERSE EFFECTS EXPECTED FROM ABSORPTION OF MATERIAL THROUGH SKIN. CONTACT MAY CAUSE SLIGHT TO SEVERE IRRITATION AND DISCOMFORT, SEEN AS LOCAL REDNESS AND SWELLING.

INHALATION: VAPORS OR MISTS IN EXCESS OF PELS, OR IN UNUSUALLY HIGH CONCENTRATIONS GENERATED FROM SPRAYING, HEATING THE MATERIAL OR AS FROM EXPOSURE IN POORLY VENTILATED AREAS OR CONFINED SPACES, MAY CAUSE IRRITATION OF THE NOSE AND THROAT, HEADACHE, NAUSEA, AND DROWSINESS.

INGESTION: MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, AND DIARRHEA.

CHRONIC (DELAYED): NO ADVERSE EFFECTS ANTICIPATED.

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

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

EMERGENCY AND FIREST 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 AND LIDS WITH WATER. SEEK MEDICAL ATTENTION.

SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION.

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

INGESTION: IF SWALLOWED, CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

OTHER HEALTH WARNINGS: REMOVE AND DRY-CLEAN OR LAUNDRER CLOTHING SOAKED OR SOILED WITH THIS MATERIAL SEPARATELY BEFORE REUSE.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: IN CASE OF THE UNUSED MATERIAL IS RELEASED OR SPILLED COLLECT THE MATERIAL USING SUITABLE CHEMICALLY RESISTANT SORBENT MATERIAL. IF THE USED MATERIAL IS RELEASED OR SPILLED REFER TO "WASTE DISPOSAL METHOD".

WASTE DISPOSAL METHOD: THIS PRODUCT IN ITSELF IS CONSIDERED TO BE NON-HAZARDOUS AS DEFINED BY RCRA (40 CFR 261). ONCE USED, THIS PRODUCT WILL TAKE ON THE CHARACTERISTICS OF THE CHEMICAL SORBED AND SHOULD BE DISPOSED OF ACCORDINGLY. DISPOSAL OF THIS PRODUCT (USED OR UNUSED) MUST BE IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORAGE:

AVOID HIGH HEAT AND/OR FREEZING CONDITIONS.

KEEP CONTAINER TIGHTLY CLOSED.

SUITABLE FOR GENERAL CHEMICAL STORAGE UNDER NORMAL WAREHOUSE CONDITIONS.

WARNING: IF THIS PRODUCT IS STORED AT TEMPERATURES ABOVE 150 F (65 C) OR AT ELEVATIONS OVER 5000 FEET. GAS MAY FORM AND BULGE THE CONTAINER. IF THE BULGING OCCURS, REMOVE THE CONTAINER FROM THE WORK AREA AND SLOWLY OPEN THE CONTAINER TO RELEASE THE GAS WHILE WEARING THE PROPER PERSONAL PROTECTIVE EQUIPMENT.

WORK/HYGIENIC PRACTICES: WORKERS SHOULD WASH EXPOSED SKIN SEVERAL TIMES DAILY WITH SOAP AND WATER.

OTHER PRECAUTIONS: NONE KNOWN.

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#### SECTION VIII - CONTROL MEASURES

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VENTILATION REQUIREMENTS:

LOCAL: AS APPROPRIATE

MECHANICAL (GENERAL): AS APPROPRIATE

SPECIAL: NONE

OTHER: NONE

PERSONAL PROTECTIVE EQUIPMENT: 29 CFR 1910.132 - PERSONAL PROTECTIVE EQUIPMENT FOR GENERAL INDUSTRY STATES THAT THE END-USER MUST DETERMINE THE SPECIFIC TYPES OF PERSONAL PROTECTIVE EQUIPMENT NEEDED WHEN USING THIS PRODUCT. THE FOLLOWING ARE ONLY SUGGESTIONS:

EYE AND FACE PROTECTION - WEAR AN ANSI Z87.1-1989 APPROVED CHEMICAL GOGGLES AND/OR FACE SHIELD.

PROTECTIVE GLOVES AND CLOTHING - SUITABLE CHEMICALLY RESISTANT GLOVES AND PROTECTIVE CLOTHING.

RESPIRATORY PROTECTION - IF A VAPOR OR MIST IS GENERATED USE A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH APPROPRIATE CHEMICAL CARTRIDGE OR CANISTER. SELF-CONTAINED BREATHING APPARATUS (SCBA) SHOULD BE USED FOR LARGE SCALE APPLICATIONS. RESPIRATORS SHOULD BE WORN IN COMPLIANCE WITH 29 CFR 1910.134 - RESPIRATORY PROTECTION.

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

#### SECTION IX - ADDITIONAL INFORMATION

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ADDITIONAL MANUFACTURER WARNINGS:

REGULATORY INFORMATION

TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE TSCA LIST.

SARA TITLE III

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES LIST: NOT LISTED

SECTION 313 TOXIC CHEMICALS: NOT LISTED

SECTION 311/312 HAZARD CATEGORIZATION

IMMEDIATE (ACUTE): YES

DELAYED (CHRONIC): NO

FIRE: NO

REACTIVE: NO

SUDDEN RELEASE OF PRESSURE: NO

US EPA CERCLA SECTION 10Z(A) HAZARDOUS SUBSTANCES: NOT LISTED

RCRA HAZARDOUS WASTE: NOT LISTED

STATE/INT'L, RIGHT-TO-KNOW: CANADA'S WHMIS - TRIETHANOLAMINE 1 PERCENT

CALIFORNIA PROPOSITION 65 - NOT LISTED

INTERNATIONAL REGULATIONS: ALL COMPONENTS ARE LISTED ON THE FOLLOWING LISTS:  
CANADA INVENTORY STATUS: CANADIAN DOMESTIC SUBSTANCE (DSL), EUROPEAN  
INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS), JAPAN INVENTORY STATUS:  
JAPANESE MITI INVENTORY.

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TRANSPORTATION INFORMATION: DOT EMERGENCY RESPONSE GUIDEBOOK (1993):  
GUIDE 60  
DOT: PROPER SHIPPING NAME: CORROSIVE LIQUIDS, N.O.S.  
TECHNICAL NAME: (TRIETHANOLAMINE)  
HAZARD CLASS: 8 ID NO.: UN1760 PACKAGING GROUP: III  
LABEL REQUIRED: TO BE DETERMINED AT TIME OF SHIPPING

IATA AND TDG: SAME AS DOT  
IMDG: SAME AS DOT IMDG PAGE: 8147

OTHER PRECAUTIONS AND COMMENTS:

ABBREVIATIONS

NA - NOT APPLICABLE NT - NOT TESTED ND - NOT DETERMINED

NE - NOT ESTABLISHED

CFR - CODE OF FEDERAL REGULATIONS

DOT - US DEPARTMENT OF TRANSPORTATION

IMDG - INTERNATIONAL MARITIME ORGANIZATION'S DANGEROUS GOODS CODE

IATA - INTERNATIONAL AIR TRANSPORT ASSOCIATION

MSDS - MATERIAL SAFETY DATA SHEET

OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

TDG - TRANSPORTATION OF DANGEROUS GOODS (CANADA)

WHMIS - WORKERS HAZARDOUS MATERIALS INFORMATION SYSTEM (CANADA)

NOTE!!! THIS MSDS HAS BEEN PREPARED ONLY FOR THE 4100 SERIES SPILFYTER  
KOLORSAFE LIQUID ACID NEUTRALIZER. BY VERY CAREFUL TO REVIEW THE MSDS FOR  
THE CHEMICALS THAT THE LIQUID NEUTRALIZER IS BEING USED WITH, AND TAKE  
THE PRECAUTIONS AS DESCRIBED.

THE INFORMATION ACCUMULATED HEREIN HAS BEEN COMPILED FROM SOURCES BELIEVED  
TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER,  
JV MANUFACTURING COMPANY, INC. CANNOT GIVE GUARANTEES REGARDING THE  
INFORMATION FROM SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR  
ASSUMES ANY LIABILITY FOR ITS USES OF THIS PRODUCT.

DISCLAIMER:

YOU HAVE PURCHASED SPILFYTER PRODUCTS FROM JV MANUFACTURING CO., INC.  
YOU HAVE BEEN PROVIDED DATA, PRODUCT LABELS, MSDS, AND INFORMATION ABOUT  
SPILFYTER PRODUCTS.

SOME SPILFYTER PRODUCTS ARE HAZARDOUS. INFORMATION ABOUT SPILFYTER PRODUCTS  
THAT ARE HAZARDOUS, IF FURNISHED WITHOUT GUARANTEE. JV MANUFACTURING CO.,  
INC. DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION ABOUT HAZARDOUS  
PRODUCTS.

THOSE PRODUCTS ARE ONLY TO BE USED BY PEOPLE HAVING EXPERTISE IN USING  
THE HAZARDOUS PRODUCTS.

THE INFORMATION PROVIDED ABOUT THE HAZARDOUS PRODUCTS IS BELIEVED TO BE  
CORRECT. YOU MUST PERFORM YOUR INVESTIGATION AS TO THE SAFETY, TOXICITY,  
SUITABILITY, AND PROPER SHIPPING METHOD FOR ANY HAZARDOUS SPILFYTER PRODUCT  
YOU HAVE PURCHASED.

NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE BY JV MANUFACTURING CO., INC.  
ABOUT THE RESULTS OF USE OF ITS PRODUCTS.  
NO GUARANTEE IS MADE AS TO THE SAFETY AND TOXICITY OF ANY SPILFYTER PRODUCT.

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JV MANUFACTURING CO., INC. DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE OF SPILFYTER PRODUCTS. ADDITIONAL INFORMATION AND RESEARCH MAY BE NECESSARY BEFORE YOU USE THE SPILFYTER PRODUCT.  
JV MANUFACTURING CO., INC. IS NOT RESPONSIBLE FOR DAMAGES, DIRECT OR INDIRECT, RESULTING FROM THE USE OF SPILFYTER PRODUCTS OR FORM RELIANCE ON DATA IN THE MSDS, OR PRODUCT LABEL.

IF UOU RESELL SPILFYTER PRODUCTS, YOU MUST BY LAW, FURNISH YOUR CUSTOMERS A COPY OF MSDSS, AND HANDLING INSTRUCTIONS.

YOUR ARE ALSO REQRUED BY LAW TO INSURE THT ALL SPILFYTER PRODUCTS ARE PROPERLY SHIPPED.

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