

MSDS NO.: 1 MATERIAL SAFETY DATA SHEET
PART NO.: 1000 SERIES FORM 1-JMD
PRODUCT NAME: SPILFYTER FOR HAZARDOUS MATERIALS 56616-230 SC56616-352
-ARG-DRI PRODUCTS 56609-220 56616-374
CAS NO.: 0 56616-002
CHEMICAL NAME: ARG-DRI SORBENTS

SECTION I

MANUFACTURER: JV MANUFACTURING CO, INC.
ADDRESS: 963 ASHWAUBENON STREET
GREEN BAY, WI 54304
EMERGENCY TELEPHONE NO.: (800)424-9300 OR 202-483-7616 (INT'L)
INFORMATION TELEPHONE NO.: (800)334-9092
DATE PREPARED: 7/01/93 REPLACES ALL PREVIOUS MSDS VERSIONS.

HMIS RATINGS: NFPA:
HEALTH:0 HEALTH:0
FIRE:0 FIRE:0
REACTIVITY:0 REACT.:0
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 %
-0	A PROPRIETARY COMP OF AMORPHOUS ALUMINUM,POTASSIUM, N	N	N	N	N	NE	NE	NE	<100.0
	SODIUM SILICATE GLASS FOAM PARTICLE(- DOES NOT MEET THE DEFINITION OF A HAZ- ARDOUS CHEMICAL GIVEN IN 29CFR 1910.1200(OSHA) INFO PROVIDED AS SERVICE ONLY								
9003-07-0	ARTICLES SUCH AS SOCKS/DIKES , AND PILLOWS, HAVE A POLYPROPYLENE CASING TO CONTAIN THE ARG- DRI SORBENT.	N	N	N	N	NE	NE	NE	<100.0

SECTION III - PHYSICAL/ CHEMICAL CHARACTERISTICS

BOILING POINT: > 2000 F SPECIFIC GRAVITY(H2O=1): 0.04980
VAPOR PRESSURE(MM HG): NA MELTING POINT: NA
VAPOR DENSITY(AIR=1): NA EVAPORATION RATE(BUTYL ACETATE=1): >2000F
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: WHITE CRYSTALLINE POWDER
OTHER INFORMATION: PH...NA PERCENT VOLATILES...NA BORON AS B202...0
FREE CRYSTALLINE SILICA...<0.1% SODIUM AS NA2O...3-4.5%

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD: NA FLAMMABLE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: NON-COMBUSTIBLE AS SUPPLIED. ANY MEDIA CAN BE USED FOR PKG
SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

*****SECTION V - REACTIVITY DATA*****

STABILITY: STABLE CONDITIONS TO AVOID...NONE KNOWN
INCOMPATIBILITY: HYDROFLUORIC ACID. FUMING NITRIC & SULFURIC ACID WILL DEGRADE
THE POLYPROPYLENE FABRIC CASING.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: NONE KNOWN.

HAZARDOUS POLYMERIZATION: MAY OCCUR..NO WILL NOT OCCUR..YES

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

ROUTES OF ENTRY: EYES..NO SKIN..NO INHALATION..YES INGESTION...NO
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-MAY CAUSE
IRRITATION.
INHALATION: EXPOSURE TO DUST LEVELS EXCEEDING THE PEL MAY CAUSE IRRITATION OF
UPPER RESPIRATORY TRACT.

CHRONIC (DELAYED):

INHALATION:

PERSISTENT DRY COUGH AND LABORED BREATHING EXERTION ARE SYMPTOMATIC.

SIGNS & SYMPTOMS OF EXPOSURE:

EYES: REDNESS, TEARING
SKIN CONTACT : REDNESS
INHALATION: DRY COUGHING

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: REPEATED SKIN CONTACT MAY AGGRAVATE EXISTING DERMATITIS AND/OR SENSITIVITY OF THE SKIN. BREATHING OF DUST MAY AGGRAVATE ACUTE OR CHRONIC ASTHMA & OTHER PULMONARY 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 IF SKIN IRRITATION DEVELOPS OR PERSISTS.
SKIN: BRUSH OFF EXCESS POWDER W/ DRY TOWEL. WASH AFFECTED AREA W/ PLENTY OF SOAP & WATER FOR SEVERAL MINUTES. SEEK MED ATTN IF IRRITATION DEVELOPS/PERSISTS

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

OTHER HEALTH WARNINGS:

EXPOSURE LIMITS:

TREAT AS NUISANCE DUST

TOTAL DUST	TWA 5MG/M3 (OSHA)	TLV 10MG/M3 (ACGIH)
RESPIRABLE DUST	5MG/M3	ND

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: NONHAZARDOUS AS SUPPL CONTAIN LEAKING OR SPILLED MATERIAL. CLEAN-UP USING SHOVELS, SWEEPING OR VACUUM SPILLED MATERIAL TO AVOID GENERATING AIRBORNE DUST.

ALL SPILLS SHOULD BE HANDLED ACCORDING TO A PREDETERMINED PLAN IN ACCORDANCE WITH 29CFR1910.120 - HAZARDOUS WASTE & EMERGENCY RESPONSE.

WASTE DISPOSAL METHOD: THIS MATERIAL IN ITS ORIGINAL (VIRGIN) STATE IS NOT CONSIDERED A HAZARDOUS MATERIAL BY CURRENT RCRA GUIDELINES, AND MAY BE DISPOSED OF IN ACCORDANCE W/ FEDERAL, STATE, & LOCAL GUIDELINES. ONCE THIS PRODUCT SORBS A CHEMICAL, USE FEDERAL, STATE, & LOCAL REGULATIONS FOR THE CHEMICAL SORBED.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:

STORAGE: STORE IN A COOL, DRY, WELL VENTILATED AREA. CLEAN UP SPILLS PROMPTLY TO AVOID MAKING DUST.

WORK/HYGIENIC PRACTICES: SEE SECTION VIII - CONTROL MEASURES FOR PERSONAL PROTECTIVE EQUIPMENT SUGGESTIONS.
DO NOT GET INTO EYES.

OTHER PRECAUTIONS: NONE KNOWN.

SECTION VIII - CONTROL MEASURES

VENTILATION REQUIREMENTS:

LOCAL EXHAUST.....AS APPROPRIATE, TO MAINTAIN PEL'S AND TLV'S
MECHANICAL (GENERAL).....AS APPROPRIATE, TO MAINTAIN PEL'S AND TLV'S
SPECIAL.....NONE
OTHER.....NONE

PERSONAL PROTECTIVE EQUIPMENT:

EYE AND FACE PROTECTION

AN ANSI Z87.1-1989 APPROVED SAFETY GLASSES OR CHEMICAL GOGGLES 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 DUST IS GENERATED USE NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR W/ APPROPRIATE FILTER FOR NUISANCE DUST.

SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED FOR LARGE SCALE OPERATIONS. ANY RESPIRATORS WORN IN CONJUNCTION W/ THIS PRODUCT SHOULD BE IN ACCORDANCE W/ 29CFR 1910.134 - RESPIRATORY PROTECTION.

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

SECTION IX - ADDITIONAL INFORMATION

ADDITIONAL MANUFACTURER WARNINGS:
REGULATORY INFORMATION

TSCA INVENTORY STATUS
POLYPROPYLENE - LISTED

SARA TITLE III
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE LIST: NOT LISTED
SECTION 313 TOXIC CHEMICAL: NOT LISTED

US EPA CERCLA REPORTABLE QUANTITY (RQ) : NOT LISTED

RCRA HAZARDOUS WASTE: NOT LISTED

STATE/INT'L RIGHT-TO-KNOW REGULATION: NOT LISTED

TRANSPORTATION INFORMATION

DOT: PROPER SHIPPING NAME: NON REGULATED
HAZARD CLASS: NA
IDENTIFICATION #: NA LABEL REQUIRED: NA
PACKAGING GROUP: NA
DOT EMERGENCY RESPONSE GUIDEBOOK: GUIDE NA
IATA: NOT REGULATED
IMDG: NOT REGULATED

TDG: NON REGULATED

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
GOODS (CANADA)
NOTE!!! THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED ONLY FOR THE
1000 SERIES SPILFYTER FOR HAZARDOUS MATERIALS - ARG-DRI PRODUCTS.

BE VERY CAREFUL TO REVIEW THE MSDS SHEET FOR THE CHEMICAL THE ARG-DRI SORBENT
IS BEING USED WITH, AND TAKE PRECAUTINS 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
EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILTY FOR ITS USES
OF THIS PRODUCT.

DISCLAIMER

YOU HAVE PURCHASED SPILFYTER PRODUCTS FRON JV MANUFACTURING CO., INC.
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.
JV MANUFACTURING CO., INC. DOES NOT GUARANTEE THE INFORMATION ABOUT HAZARDOUS
SPILFYTER PRODUCTS.

THOSE PRODUCTS ARE ONLY TO BE USED BY PEOPLE HAVING EXPERIENCE IN USING HAZARDOUS MATERIALS.

THE INFORMATION PROVIDED ABOUT HAZARDOUS MATERIALS 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.

JV MANUFACTURING CO, INC. DOES NOT ASSUME ANY LAIBILITY ARISING OUT OF SPILFYTER PRODUCTS. ADDITIONAL INFORMATIONN AND RESEARCH MAY BE NECESSARY BEFORE YOU USE THE SPILFYTER PRODUCTS.

JV MANUFACTURING CO., INC IS NOT RESPONSIBLE FOR DAMAGES, DIRECT OR INDIRECT, RESULTING FROM THE USE OF SPILFYTER PRODUCTS OR FROM RELIANCE ON DATA IN THE MATERIAL SAFETY DATA SHEET, OR PRODUCT LABEL.

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