

ITEM: 13J004 - Fire Extinguisher Dry ABC 3A:40B:C

SDS: E3024

ORDER: 0173117409

LP NUMBER: U804796916

SAFETY DATA SHEET (SDS)

This SDS should be attached or kept with the respective product with which it is associated.

SDS - E3024

Associated Items
13J002, 13J004

AMEREX(R)
QUALITY IS BEHIND THE DIAMOND.

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ABC DRY CHEMICAL FIRE EXTINGUISHANT

OTHER IDENTIFIERS: MULTI-PURPOSE DRY CHEMICAL

PRODUCT CODE(S): CH555, F13, F11

MODEL CODE(S) OF EXTINGUISHERS:
402, IS 18ABC, IS35ABC, IS 45ABC, 13ABC, V25ABC, VH25ABC, V30ABC, VH30ABC,
V50ABC, V550ABC, VS75ABC, V250ABC

RECOMMENDED USE: FIRE SUPPRESSION, NOT FOR HUMAN OR ANIMAL DRUG USE.

MANUFACTURER: AMEREX CORPORATION

INTERNET ADDRESS: WWW.AMEREX-FIRE.COM

ADDRESS:
7595 GADSDEN HIGHWAY
P.O. BOX 81
TRUSSVILLE, AL 35173-0081

COMPANY TELEPHONE: (205) 655-3271

E-MAIL ADDRESS: INFO@AMEREX-FIRE.COM

EMERGENCY CONTACTS:
CHEMTREC: 1 (800) 424-9300 OR (703) 527-3887

REVISED: MAY, 2016

SECTION 2. HAZARDS IDENTIFICATION

GHS - CLASSIFICATION:

HEALTH	ENVIRONMENTAL	PHYSICAL
ACUTE TOXICITY: CATEGORY 5	NONE	NONE
SKIN CORROSION/IRRITATION: CATEGORY 3	NONE	NONE
SKIN SENSITIZATION: NO	NONE	NONE
EYE: CATEGORY 2B	NONE	WARNING
STOT - CATEGORY 3	NONE	WARNING
CARCINOGEN: CATEGORY NONE	NONE	NONE

GHS - LABEL SYMBOL(S): EXCLAMATION MARK

GHS - WORD(S): WARNING

OTHER HAZARDS NOT RESULTING IN CLASSIFICATION: NONE

GHS - HAZARD PHRASES:

GHS HAZARD	GHS CODES(S)	CODE PHRASE(S)
PHYSICAL	NONE	
HEALTH	H303 316 320 335	MAY BE HARMFUL IF SWALLOWED CAUSES MILD SKIN IRRITATION CAUSES EYE IRRITATION MAY CAUSE RESPIRATORY IRRITATION
ENVIRONMENTAL	NONE	

PRECAUTIONARY:

GENERAL	P101	IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND
PREVENTION	261	AVOID BREATHING DUST
	264	WASH HANDS AND FACE THOROUGHLY AFTER HANDLING
RESPONSE	P304+340	IF INHALED, REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.
	305+351+313	IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. GET IMMEDIATE MEDICAL ADVICE/ATTENTION (AS APPROPRIATE).
	337+338	IF EYE IRRITATION PERSISTS: REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.
	312	CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL (AS APPROPRIATE).
STORAGE	NONE	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	EC NO.	REACH REG. NO.	CAS-NO.	WEIGHT %	CLASSIFICATION
MONO-AMMONIUM PHOSPHATE	NA	NA	7722-76-1	90-97	NA
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE	NA	NOT AVAILABLE	8031-18-3	>3	NA
MICA-POTASSIUM ALUMINUM SILICATE	NA	NOT AVAILABLE	12001-26-2	1-2	NA
SILICONE OIL METHYL HYDROGEN POLYSILOXANE	NA	NOT AVAILABLE	63148-57-2	<1	NA
CALCIUM CARBONATE	215-279-6	NOT AVAILABLE	1317-65-3	<1	NA
AMORPHOUS SILICA PRECIPITATED SYNTHETIC ZEOLITE	262-373-8	NOT AVAILABLE	112926-00-8	<1	NA
YELLOW 14 PIGMENT - DI-AZO DYE	228-767-9	NOT AVAILABLE	5468-75-7	<1	NA

EMERGENCY OVERVIEW: LIGHT YELLOW, FINE SOLID POWDER, ODORLESS.

ADVERSE HEALTH EFFECTS AND SYMPTOMS:
MILD IRRITANT TO THE RESPIRATORY SYSTEM, EYES, AND SKIN. SYMPTOMS MAY INCLUDE COUGHING, SHORTNESS OF BREATH, AND IRRITATION OF THE LUNGS, EYES, AND SKIN. INGESTION, ALTHOUGH UNLIKELY, MAY CAUSE CRAMPS, NAUSEA AND DIARRHEA.

CUT-OFF LEVELS:

CHEMICAL NAME	REPRODUCTIVE TOXICITY	CARCINOGENICITY	MUTAGENICITY	OTHER HAZARD CLASSES
MONO-AMMONIUM PHOSPHATE	NA	NA	NA	NA
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE	NA	NA	NA	NA
MICA-POTASSIUM ALUMINUM SILICATE	NA	NA	NA	NA
SILICONE OIL METHYL HYDROGEN POLYSILOXANE	NA	NA	NA	NA
CALCIUM CARBONATE	NA	NA	NA	NA
AMORPHOUS SILICA PRECIPITATED SYNTHETIC ZEOLITE	NA	NA	NA	NA
YELLOW 14 PIGMENT - DI-AZO DYE	NA	NA	NA	NA

SECTION 4. FIRST AID MEASURES

EYE EXPOSURE:

MAY CAUSE IRRITATION. IRRIGATE EYES WITH WATER AND REPEAT UNTIL PAIN FREE. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS, OR IF VISION CHANGES OCCUR.

SKIN EXPOSURE:

MAY CAUSE SKIN IRRITATION. IN CASE OF CONTACT, WASH WITH PLENTY OF SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION:

MAY CAUSE IRRITATION, ALONG WITH COUGHING. IF RESPIRATORY IRRITATION OR DISTRESS OCCURS, REMOVE VICTIM TO FRESH AIR. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION:

OVERDOSE SYMPTOMS MAY INCLUDE NUMBNESS OR TINGLING IN HANDS OR FEET, UNEVEN HEART RATE, PARALYSIS, FEELING FAINT, CHEST PAIN OR HEAVY FEELING, PAIN SPREADING TO THE ARM OR SHOULDER, NAUSEA, DIARRHEA, SWEATING, GENERAL ILL FEELING, OR SEIZURE (CONVULSIONS). IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-3 GLASSES OF WATER TO DRINK. IF CONSCIOUS, DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION. DO NOT LEAVE VICTIM UNATTENDED. TO PREVENT ASPIRATION OF SWALLOWED PRODUCT, LAY VICTIM ON SIDE WITH HEAD LOWER THAN WAIST.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:
INHALATION OF PRODUCT MAY AGGRAVATE EXISTING CHRONIC RESPIRATORY PROBLEMS SUCH AS ASTHMA, EMPHYSEMA, OR BRONCHITIS. SKIN CONTACT MAY AGGRAVATE EXISTING SKIN DISEASE. CHRONIC OVEREXPOSURE MAY CAUSE PNEUMOCOCCIOSIS ("DUSTY LUNG" DISEASE).

SECTION 5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: NOT FLAMMABLE

FLASH POINT: NOT DETERMINED

SUITABLE EXTINGUISHING MEDIA:
NON-COMBUSTIBLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING
CONDITIONS.

HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES

EXPLOSION DATA:
SENSITIVITY TO MECHANICAL IMPACT: NOT SENSITIVE
SENSITIVITY TO STATIC DISCHARGE: NOT SENSITIVE

UNUSUAL FIRE/EXPLOSION HAZARDS:
IN A FIRE, THIS MATERIAL MAY DECOMPOSE, RELEASING OXIDES OF CARBON,
POTASSIUM AND NITROGEN (SEE SECTION 10).

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:
AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND,
NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: AVOID CONTACT WITH SKIN, EYES, AND CLOTHING.

PERSONAL PROTECTIVE EQUIPMENT:
MINIMUM - SAFETY GLASSES, GLOVES, AND A DUST RESPIRATOR.

EMERGENCY PROCEDURES: NA

METHODS FOR CONTAINMENT:
PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

METHODS FOR CLEAN UP:
AVOID DUST FORMATION. CLEAN UP RELEASED MATERIAL USING VACUUM OR WET SWEEP
AND SHOVEL TO MINIMIZE GENERATION OF DUST. BAG AND TRANSFER TO PROPERLY
LABELED CONTAINERS. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL
PICKUP IS COMPLETE.

OTHER:
IF PRODUCT IS CONTAMINATED, USE PPE AND CONTAINMENT APPROPRIATE TO THE
NATURE OF THE MOST TOXIC CHEMICAL/MATERIAL IN THE MIXTURE.

SECTION 7. HANDLING AND STORAGE

PERSONAL PRECAUTIONS:
USE APPROPRIATE PPE WHEN HANDLING OR MAINTAINING EQUIPMENT, AND WASH
THOROUGHLY AFTER HANDLING (SEE SECTION 8).

CONDITIONS FOR SAFE STORAGE:
KEEP PRODUCT IN ORIGINAL CONTAINER OR EXTINGUISHER. CONTENTS MAY BE UNDER
PRESSURE - INSPECT EXTINGUISHER CONSISTENT WITH PRODUCT LABELING TO ENSURE
CONTAINER INTEGRITY.

INCOMPATIBLE PRODUCTS:
DO NOT MIX WITH OTHER EXTINGUISHING AGENTS, PARTICULARLY POTASSIUM
BICARBONATE AND SODIUM BICARBONATE. INCOMPATIBLE WITH STRONG OXIDIZING
AGENTS AND STRONG ACIDS. DO NOT STORE IN HIGH HUMIDITY. DO NOT COMBINE WITH
CHLORINE COMPOUNDS.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
MONO-AMMONIUM PHOSPHATE	PNOC** TOTAL DUST, 15 MG/M3 RESPIRABLE FRACTION, 5 MG/M3	PNOC TOTAL DUST, 10 MG/M3 RESPIRABLE FRACTION, 3 MG/M3	PNOC TOTAL DUST, 4 MG/M3 RESPIRABLE FRACTION, 1.5 MG/M3	NA
MICA	6 MG/M3	3 MG/M3		NA
FULLERS EARTH	PNOC** TOTAL DUST, 15 MG/M3 RESPIRABLE FRACTION, 5 MG/M3	PNOC TOTAL DUST, 10 MG/M3 RESPIRABLE FRACTION, 3 MG/M3	PNOC TOTAL DUST, 4 MG/M3 RESPIRABLE FRACTION, 1.5 MG/M3	
SILICONE OIL	NR**	NR		
CALCIUM CARBONATE	PNOC TOTAL DUST, 15 MG/M3 RESPIRABLE FRACTION, 5 MG/M3	TOTAL DUST, 10 MG/M3 RESPIRABLE FRACTION, 3 MG/M3		NA
AMORPHOUS SILICA	143 MG/M3 OR 80 MG/M3/ % SiO2	10 MG/M3	4 MG/M3	NA
YELLOW 14 PIGMENT	NR	NR	NR	NA

*GERMAN REGULATORY LIMITS

**PNOC = PARTICULATES NOT OTHERWISE CLASSIFIED (ACGIH) ALSO KNOWN AS
PARTICULATES NOT OTHERWISE REGULATED (OSHA)

*** NR = NOT REGULATED.

ALL VALUES ARE 8 HOUR TIME WEIGHTED AVERAGE CONCENTRATIONS.

ENGINEERING CONTROLS:
SHOWERS
EYEWASH STATIONS
VENTILATION SYSTEMS

PERSONAL PROTECTIVE EQUIPMENT - PPE CODE E:
THE NEED FOR RESPIRATORY PROTECTION IS NOT PROBABLE DURING SHORT-TERM
EXPOSURE. PPE USE DURING PRODUCTION PROCESS MUST BE INDEPENDENTLY
EVALUATED.

SAFETY GLASSES
GLOVES
FULL SUIT
DUST MASK

EYE/FACE PROTECTION: TIGHTLY FITTING SAFETY GOGGLES

SKIN AND BODY PROTECTION: WEAR PROTECTIVE GLOVES/COVERALLS

RESPIRATORY PROTECTION:
IF EXPOSURE LIMITS ARE EXCEEDED OR IRRITATION IS EXPERIENCED, NIOSH
APPROVED RESPIRATORY PROTECTION SHOULD BE WORN. USE P100 RESPIRATORS FOR
LIMITED EXPOSURE, USE AIR-PURIFYING RESPIRATOR (APR) WITH HIGH EFFICIENCY
PARTICULATE AIR (HEPA) FILTERS FOR PROLONGED EXPOSURE. POSITIVE-PRESSURE
SUPPLIED AIR RESPIRATORS MAY BE REQUIRED FOR HIGH AIRBORNE CONTAMINANT
CONCENTRATIONS. RESPIRATORY PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH
CURRENT SAFETY AND HEALTH REQUIREMENTS. THE NEED FOR RESPIRATORY PROTECTION
IS NOT LIKELY FOR SHORT-TERM USE IN WELL VENTILATED AREAS.

HYGIENE MEASURES:
GOOD PERSONAL HYGIENE PRACTICE IS ESSENTIAL, SUCH AS AVOIDING FOOD, TOBACCO
PRODUCTS, OR OTHER HAND-TO-MOUTH CONTACT WHEN HANDLING. WASH THOROUGHLY
AFTER HANDLING.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: LIGHT YELLOW POWDER, FINELY DIVIDED ODORLESS SOLID

MOLECULAR WEIGHT: 115.03

ODOR: ODORLESS

ODOR THRESHOLD: NO INFORMATION AVAILABLE

DECOMPOSITION TEMPERATURE DEG. C: 100 - 120

FREEZING POINT DEG. C: NO INFORMATION AVAILABLE

INITIAL BOILING POINT DEG. C: NO INFORMATION AVAILABLE

PHYSICAL STATE: CRYSTALLINE POWDER

PH: APPROXIMATELY 4.4 TO 4.9

FLASH POINT DEG. C: NONE

AUTOIGNITION TEMPERATURE DEG. C: NONE

BOILING POINT/RANGE DEG. C: NOT APPLICABLE

MELTING POINT/RANGE DEG. C: 190 C

FLAMMABILITY LIMITS IN AIR DEG. C:
UPPER: NOT FLAMMABLE
LOWER: NOT FLAMMABLE

EXPLOSIVE PROPERTIES: NONE

OXIDIZING PROPERTIES: NONE

VOLATILE COMPONENT (%VOL): NOT APPLICABLE

EVAPORATION RATE: NOT APPLICABLE

MMHg @ 37.8 C: NOT APPLICABLE

VAPOR DENSITY: NOT APPLICABLE

VAPOR PRESSURE: NOT APPLICABLE

SPECIFIC GRAVITY: APPROXIMATELY 1.8 AT 25 C

SOLUBILITY: 40.4 G/100 ML

PARTITION COEFFICIENT: NO INFORMATION AVAILABLE

VISCOSITY: NOT APPLICABLE

SECTION 10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER RECOMMENDED STORAGE AND HANDLING CONDITIONS.

INCOMPATIBLES:
STRONG OXIDIZING AGENTS; STRONG ACIDS; SODIUM HYPOCHLORITE AND CHLORINE
COMPOUNDS. PROTECT FROM MOISTURE

CONDITIONS TO AVOID: STORAGE OR HANDLING NEAR INCOMPATIBLES.

HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON, NITROGEN, AND POTASSIUM OXIDES. HEAT OF FIRE MAY RELEASE CARBON
MONOXIDE.

POSSIBILITY OF HAZARDOUS REACTIONS: NONE

HAZARDOUS POLYMERIZATION: DOES NOT OCCUR

SECTION 11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: INHALATION, SKIN AND EYE CONTACT.

SYMPTOMS:
INHALATION: IRRITATION, COUGHING.
EYES: IRRITATION.
SKIN: IRRITATION.

ACUTE TOXICITY: RELATIVELY NON-TOXIC.

CHRONIC TOXICITY:

SHORT-TERM EXPOSURE: NONE KNOWN.

LONG-TERM EXPOSURE:
AS WITH ALL DUSTS, PNEUMOCONIOSIS, OR "DUSTY LUNG" DISEASE, MAY RESULT FROM
CHRONIC EXPOSURE.

ACUTE TOXICITY VALUES - HEALTH:

CHEMICAL NAME	LD50		LC50 (INHALATION)
	ORAL	DERMAL	
MONO-AMMONIUM PHOSPHATE	5750 MG/KG (RAT)	>7940 MG/KG (RABBIT)	NOT AVAILABLE
MICA	NONE	NONE	NONE
FULLERS EARTH	NONE	NONE	NONE
SILICONE OIL	NONE	NONE	NONE
CALCIUM CARBONATE	6450 MG/KG (RAT)	500 MG/24 HR (RABBIT)	NOT AVAILABLE
AMORPHOUS SILICA	>5000 MG/KG (RAT)	>2000 MG/KG (RABBIT)	>2.2 MG/L (RAT)
YELLOW 14 PIGMENT	>17000 MG/KG (RAT)	>3000 MG/KG (RAT)	>4448 MG/M3 (RAT)

REPRODUCTIVE TOXICITY:
THIS PRODUCT'S INGREDIENTS ARE NOT KNOWN TO HAVE REPRODUCTIVE OR TERATOGENIC EFFECTS.

TARGET ORGANS AND EFFECTS (TOST):
RESPIRATORY SYSTEM (MILD IRRITANT).

THIS PRODUCT IS A MILD IRRITANT TO EPITHELIAL TISSUE, (EYES, MUCOUS MEMBRANES, SKIN) AND MAY AGGRAVATE DERMATITIS. NO INFORMATION WAS FOUND INDICATING THE PRODUCT CAUSES SENSITIZATION.

OTHER TOXICITY CATEGORIES:

CHEMICAL NAME	GERM CELL MUTAGENICITY	CARCINOGENICITY	REPRODUCTIVE
POTASSIUM BICARBONATE	NONE	NONE	NONE
FULLERS EARTH	NONE	NONE	NONE
MICA	NONE	NONE	NONE
SILICONE OIL	NONE	NONE	NONE
CALCIUM CARBONATE	NONE	NONE	NONE
AMORPHOUS SILICA	NONE	NONE	NONE
YELLOW 14 PIGMENT	NONE	NONE	NONE

CHEMICAL NAME	TOST SINGLE EXP	TOST REPEATED EXP	ASPIRATION
POTASSIUM BICARBONATE	CAT 3	NONE	NONE
FULLERS EARTH	NONE	NONE	NONE
MICA	NONE	NONE	NONE
SILICONE OIL	NONE	NONE	NONE
CALCIUM CARBONATE	NONE	NONE	NONE
AMORPHOUS SILICA	NONE	NONE	NONE
YELLOW 14 PIGMENT	NONE	NONE	NONE

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:
NEGATIVE EFFECTS UNKNOWN. PROVIDES NUTRIENT NITROGEN AND PHOSPHORUS TO PLANT LIFE.

PERSISTENCE/DEGRADABILITY: DEGRADES RAPIDLY IN HUMID/WET ENVIRONMENT.

BIOACCUMULATION: EXTENT UNKNOWN.

MOBILITY IN SOIL:
SLOW EVAPORATION RATE; WATER SOLUBLE, MAY LEACH TO GROUNDWATER.

OTHER ADVERSE ECOLOGICAL EFFECTS: NO OTHER KNOWN EFFECTS AT THIS TIME.

AQUATIC TOXICITY VALUES - ENVIRONMENT: NONE KNOWN

CHEMICAL NAME	ACUTE (LC50)	CHRONIC (LC50)
MONO-AMMONIUM PHOSPHATE	N/A	N/A
MICA	N/A	N/A
FULLERS EARTH	N/A	N/A
SILICONE OIL	N/A	N/A
CALCIUM CARBONATE	N/A	N/A
AMORPHOUS SILICA	N/A	N/A
YELLOW 14 PIGMENT	N/A	N/A

SECTION 13. DISPOSAL CONSIDERATIONS

SAFE HANDLING:
USE APPROPRIATE PPE WHEN HANDLING, AND WASH THOROUGHLY AFTER HANDLING (SEE SECTION 8).

WASTE DISPOSAL CONSIDERATIONS:
DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

CONTAMINATED PACKAGING:
DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

NOTES:
THIS PRODUCT IS NOT A RCRA CHARACTERISTICALLY HAZARDOUS OR LISTED HAZARDOUS WASTE. DISPOSE OF ACCORDING TO STATE OR LOCAL LAWS, WHICH MAY BE MORE RESTRICTIVE THAN FEDERAL LAWS OR REGULATIONS. USED PRODUCT MAY BE ALTERED OR CONTAMINATED, CREATING DIFFERENT DISPOSAL CONSIDERATIONS.

SECTION 14. TRANSPORT INFORMATION

UN NUMBER: NA
UN PROPER SHIPPING NAME: NA
TRANSPORT HAZARD CLASS: NA
PACKING GROUP: NA
MARINE POLLUTANT?: NO

IATA: NOT REGULATED

DOT: NOT REGULATED

NOTES:
THIS PRODUCT IS NOT DEFINED AS A HAZARDOUS MATERIAL UNDER U.S. DEPARTMENT OF TRANSPORTATION (DOT) 49 CFR 172, OR BY TRANSPORT CANADA "TRANSPORTATION OF DANGEROUS GOODS" REGULATIONS.

SPECIAL PRECAUTIONS FOR SHIPPING:
IF SHIPPED IN A STORED PRESSURE-TYPE FIRE EXTINGUISHER, AND PRESSURIZED WITH A NON-FLAMMABLE, NON-TOXIC INERT EXPELLANT GAS, THE FIRE EXTINGUISHER IS CONSIDERED A HAZARDOUS MATERIAL BY THE US DEPARTMENT OF TRANSPORTATION AND TRANSPORT CANADA. THE PROPER SHIPPING NAME SHALL BE FIRE EXTINGUISHER AND THE UN DESIGNATION IS UN 1044. THE DOT HAZARD CLASS IS LIMITED QUANTITY WHEN SHIPPED VIA HIGHWAY OR RAIL. USE A NON-FLAMMABLE GAS LABEL (CLASS 2.2) WHEN SHIPPING VIA AIR.

SECTION 15. REGULATORY INFORMATION

INTERNATIONAL INVENTORY STATUS:
ALL INGREDIENTS ARE ON THE FOLLOWING INVENTORIES

COUNTRY (IES)	AGENCY	STATUS
UNITED STATES OF AMERICA	TSCA	YES
CANADA	DSL	YES
EUROPE	EINECS/ELINCS	YES
AUSTRALIA	AICS	YES
JAPAN	MITI	YES
SOUTH KOREA	KECL	YES

REACH TITLE VII RESTRICTIONS: NO INFORMATION AVAILABLE

CHEMICAL NAME	DANGEROUS SUBSTANCES	ORGANIC SOLVENTS	HARMFUL SUBSTANCES WHOSE NAMES ARE TO BE INDICATED ON LABEL
MONO-AMMONIUM PHOSPHATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

CHEMICAL NAME	POLLUTION RELEASE AND TRANSFER REGISTRY (CLASS II)	POLLUTION RELEASE AND TRANSFER REGISTRY (CLASS I)	POISON AND DELETERIOUS SUBSTANCES CONTROL LAW
MONO-AMMONIUM PHOSPHATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

COMPONENT	ISHA - HARMFUL SUBSTANCES PROHIBITED FOR MANUFACTURING, IMPORTING, TRANSFERRING, OR SUPPLYING	ISHA - HARMFUL SUBSTANCES REQUIRING PERMISSION
MONO-AMMONIUM PHOSPHATE 7722-76-1	NOT APPLICABLE	NOT APPLICABLE
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE 8031-18-3 (>4)	NOT APPLICABLE	NOT APPLICABLE
MICA-POTASSIUM ALUMINUM SILICATE 120001-26-2 (>2)	NOT APPLICABLE	NOT APPLICABLE
CALCIUM CARBONATE 471-34-1	NOT APPLICABLE	NOT APPLICABLE
AMORPHOUS SILICA 69012-64-2	NOT APPLICABLE	NOT APPLICABLE
YELLOW 14 PIGMENT 5468-75-7	NOT APPLICABLE	NOT APPLICABLE

COMPONENT	TOXIC CHEMICAL CLASSIFICATION LISTING (TCCL) - TOXIC CHEMICALS	TOXIC RELEASE INVENTORY (TRI) - GROUP I	TOXIC RELEASE INVENTORY (TRI) - GROUP II
MONO-AMMONIUM PHOSPHATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
MICA-POTASSIUM ALUMINUM SILICATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
CALCIUM CARBONATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
AMORPHOUS SILICA	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
YELLOW 14 PIGMENT	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

COMPONENT	TOXIC CHEMICAL CLASSIFICATION LISTING (TCCL) - TOXIC CHEMICALS	TOXIC RELEASE INVENTORY (TRI) - GROUP I	TOXIC RELEASE INVENTORY (TRI) - GROUP II
MONO-AMMONIUM PHOSPHATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
MICA-POTASSIUM ALUMINUM SILICATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
CALCIUM CARBONATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
AMORPHOUS SILICA	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
YELLOW 14 PIGMENT	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

EUROPEAN RISK AND SAFETY PHRASES:

EU CLASSIFICATION:
XN: IRRITANT

R PHRASES:
20: HARMFUL BY INHALATION.
36/37: IRRITATING TO EYES, RESPIRATORY SYSTEM.

S PHRASES:
22: DO NOT BREATHE DUST.
24/25: AVOID CONTACT WITH SKIN AND EYES.

26:
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

36: WEAR SUITABLE PROTECTIVE CLOTHING.

U.S. FEDERAL REGULATORY INFORMATION:

SARA 313:
SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):
THIS PRODUCT DOES NOT CONTAIN AND CHEMICALS WHICH ARE SUBJECT TO THE REPORTING REQUIREMENTS OF THE ACT AND TITLE 40 OF THE CODE OF FEDERAL REGULATIONS, PART 372.

NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER SARA REPORTING REQUIREMENTS OR HAVE SARA THRESHOLD PLANNING QUANTITIES (TPQS) OR CERCLA REPORTABLE QUANTITIES (RQS), OR ARE REGULATED UNDER TSCA 8(D).

SARA 311/312:
HAZARD CATEGORIES:
ACUTE HEALTH HAZARD: YES
CHRONIC HEALTH HAZARD: NO
FIRE HAZARD: NO
SUDDEN RELEASE OF PRESSURE HAZARD*: YES
REACTIVE HAZARD: NO

* - ONLY APPLICABLE IF MATERIAL IS IN A PRESSURIZED EXTINGUISHER.

CLEAN WATER/CLEAN AIR ACTS:
THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES REGULATED AS POLLUTANTS PURSUANT TO THE CLEAN WATER ACT (40 CFR 122.21 AND 40 CFR 122.42) OR CLEAN AIR ACT, SECTION 112, HAZARDOUS AIR POLLUTANTS (HAPS) (SEE 40 CFR 61) AND SECTION 112 OF THE CLEAN AIR ACT AMENDMENTS OF 1990.

U.S. STATE REGULATORY INFORMATION:
CHEMICALS IN THIS PRODUCT ARE COVERED UNDER SPECIFIC STATE REGULATIONS, AS DENOTED BELOW:

ALASKA - DESIGNATED TOXIC AND HAZARDOUS SUBSTANCES: NONE
CALIFORNIA - PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS: NONE
FLORIDA - SUBSTANCE LIST: MICA DUST
ILLINOIS - TOXIC SUBSTANCE LIST: NONE
KANSAS - SECTION 302/303 LIST: NONE
MASSACHUSETTS - SUBSTANCE LIST: MICA DUST
MINNESOTA - LIST OF HAZARDOUS SUBSTANCES: NONE
MISSOURI - EMPLOYER INFORMATION/TOXIC SUBSTANCE LIST: NONE
NEW JERSEY - RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST: NONE
NORTH DAKOTA - LIST OF HAZARDOUS CHEMICALS, REPORTABLE QUANTITIES: NONE
PENNSYLVANIA - HAZARDOUS SUBSTANCE LIST: NONE
RHODE ISLAND - HAZARDOUS SUBSTANCE LIST: MICA DUST
TEXAS - HAZARDOUS SUBSTANCE LIST: NO
WEST VIRGINIA - HAZARDOUS SUBSTANCE LIST: NONE
WISCONSIN - TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA PROPOSITION 65:
NO COMPONENT IS LISTED ON THE CALIFORNIA PROPOSITION 65 LIST.

OTHER:
MEXICO - GRADE: NO COMPONENT LISTED
CANADA - WEMIS HAZARD CLASS: NO COMPONENT LISTED

SECTION 16. OTHER INFORMATION

THIS SDS CONFORMS TO REQUIREMENTS UNDER U.S., U.K., CANADIAN, AUSTRALIAN, AND EU REGULATIONS OR STANDARDS, AND CONFORMS TO THE PROPOSED 2003 ANSI Z400.1 FORMAT.

ISSUING DATE: 17-JUNE-2012

REVISION DATE: 4-MAY-2016

REVISION NOTES: NONE

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE. UPDATED BY WILLIAM F. GARVIN, CIH.

ITEM: **3YWN1 - Fire Extinguisher Dry Chemical 1A:**

SDS: **E3023**

ORDER: **0173117409**

LP NUMBER: **U804796916**

SAFETY DATA SHEET (SDS)

This SDS should be attached or kept with the respective product with which it is associated.

SDS - E3023

Associated Items
13J003, 3YW1, 3YWN1, 3YWN7, 3YWL7, 3YWF4, 3YWF7, 3YWP1, 3YWE1, 3YU1, 13J005

AMEREX(R*)
QUALITY IS BEHIND THE DIAMOND.

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ABC DRY CHEMICAL FIRE EXTINGUISHANT

OTHER IDENTIFIERS: MULTI-PURPOSE DRY CHEMICAL

PRODUCT CODE(S): CH550, F15, F18

MODEL CODE(S) FOR EXTINGUISHERS:
411, 417, 419, 423, 424, 425, 441, 443, 450, 456, 461, 464, 467, 470, 473, 476, 481, 487, 488, 491, 495, 500, 564, 567, 573, 581, 589, 592, 594, 668, 692, 720, 760, 763, 781.

RECOMMENDED USE:
FIRE SUPPRESSION, NOT FOR HUMAN OR ANIMAL DRUG USE.

MANUFACTURER: AMEREX CORPORATION

INTERNET ADDRESS: WWW.AMEREX-FIRE.COM

ADDRESS:
7595 GADSDEN HIGHWAY
P.O. BOX 81
TRUSSVILLE, AL 35173-0081

COMPANY TELEPHONE: (205) 655-3271

E-MAIL ADDRESS: INFO@AMEREX-FIRE.COM

EMERGENCY CONTACTS:
CHEMTREC: 1(800) 424-9300 OR (703) 527 - 3887

REVISED: JANUARY 2015

SECTION 2. HAZARDS IDENTIFICATION

GHS - CLASSIFICATION:

HEALTH	ENVIRONMENTAL	PHYSICAL
ACUTE TOXICITY: CATEGORY 5	NONE	NONE
SKIN CORROSION/IRRITATION: CATEGORY 2	NONE	NONE
SKIN SENSITIZATION: NO	NONE	NONE
EYE: CATEGORY 2B	NONE	WARNING
CARCINOGEN: CATEGORY NONE	NONE	NONE

GHS - LABEL SYMBOL(S): NONE

GHS - SIGNAL WORD(S): WARNING

OTHER HAZARDS NOT RESULTING IN CLASSIFICATION: NONE

GHS - HAZARD PHRASES:

GHS HAZARD	GHS CODE(S)	CODE PHRASE(S)
PHYSICAL	NONE	
HEALTH	H303 313 320 333	MAY BE HARMFUL IF SWALLOWED MAY BE HARMFUL IN CONTACT WITH SKIN CAUSES EYE IRRITATION MAY BE HARMFUL IF INHALED
ENVIRONMENTAL	NONE	
PRECAUTIONARY:		
GENERAL	P101	IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND
	102	KEEP OUT OF REACH OF CHILDREN
PREVENTION	234	KEEP IN ORIGINAL CONTAINER
	251	PRESSURIZED CONTAINER; DO NOT PIERCE OR BURN, EVEN AFTER USE
	261	AVOID BREATHING DUST
	264	WASH HANDS AND FACE THOROUGHLY AFTER HANDLING
	270	DO NOT EAT, DRINK, OR SMOKE WHEN USING THIS PRODUCT
	281	USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED
	285	IN CASE OF INADEQUATE VENTILATION, WEAR RESPIRATORY PROTECTION
RESPONSE	P301+322+331	IF SWALLOWED, DRINK 2-3 GLASSES OF WATER AND DO NOT INDUCE VOMITING
	302+352	IF ON SKIN, WASH WITH SOAP AND WATER

304+313+341	IF INHALED, AND IF DISTRESS OCCURS, REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. SEEK MEDICAL ADVICE/ATTENTION
305+351+338	IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO, AND CONTINUE TO RINSE
308+313	IF EXPOSED OR CONCERNED, GET MEDICAL ADVICE/ATTENTION
337+313	IF EYE IRRITATION PERSISTS; GET MEDICAL ADVICE/ATTENTION
STORAGE	P401+402+403 STORE IN ORIGINAL CONTAINER OR EXTINGUISHER IN A DRY, WELL VENTILATED PLACE

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	EC NO.	REACH REG. NO.	CAS-NO.	WEIGHT %
MONO-AMMONIUM PHOSPHATE	NA	NA	7722-76-1	55-75
AMMONIUM SULFATE	231-984-1	NA	7783-20-2	20-40
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE		NA	NOT AVAILABLE	8031-18-3 <3
MICA-POTASSIUM ALUMINUM SILICATE	NA	NOT AVAILABLE	12001-26-2	1-2
SILICONE OIL METHYL HYDROGEN POLYSILOXANE		NOT AVAILABLE	63148-57-2	<1
CALCIUM CARBONATE	215-279-6	NOT AVAILABLE	1317-65-3	<1
AMORPHOUS SILICA PRECIPITATED SYNTHETIC ZEOLITE	262-373-8	NOT AVAILABLE	112926-00-8	<1
YELLOW 14 PIGMENT - DIAZO DYE	228-767-9	NOT AVAILABLE	5468-75-7	<1
EMERGENCY OVERVIEW: LIGHT YELLOW, FINE SOLID POWDER, ODORLESS.				
ADVERSE HEALTH EFFECTS AND SYMPTOMS: IRRITANT TO THE RESPIRATORY SYSTEM; IRRITATING TO EYES AND SKIN. SYMPTOMS MAY INCLUDE COUGHING, SHORTNESS OF BREATH, AND IRRITATION OF THE LUNGS, EYES, AND SKIN. INGESTION, ALTHOUGH UNLIKELY, MAY CAUSE CRAMPS, NAUSEA AND DIARRHEA.				
CUT-OFF LEVELS:				
CHEMICAL NAME	REPRODUCTIVE TOXICITY	CARCINOGENICITY	MUTAGENICITY	OTHER HAZARD CLASSES
MONO-AMMONIUM PHOSPHATE	NA	NA	NA	NA
AMMONIUM SULFATE	NA	NA	NA	NA
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE	NA	NA	NA	NA
MICA-POTASSIUM ALUMINUM SILICATE	NA	NA	NA	NA
SILICONE OIL METHYL HYDROGEN POLYSILOXANE	NA	NA	NA	NA
CALCIUM CARBONATE	NA	NA	NA	NA
AMORPHOUS SILICA PRECIPITATED SYNTHETIC ZEOLITE	NA	NA	NA	NA
YELLOW 14 PIGMENT - DI-AZO DYE	NA	NA	NA	NA

SECTION 4. FIRST AID MEASURES

EYE EXPOSURE:
MAY CAUSE IRRITATION. IRRIGATE EYES WITH WATER AND REPEAT UNTIL PAIN FREE. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS, OR IF VISION CHANGES OCCUR.

SKIN EXPOSURE:
MAY CAUSE SKIN IRRITATION. IN CASE OF CONTACT, WASH WITH PLENTY OF SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION:
MAY CAUSE IRRITATION, ALONG WITH COUGHING. IF RESPIRATORY IRRITATION OR DISTRESS OCCURS, REMOVE VICTIM TO FRESH AIR. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION:
 OVERDOSE SYMPTOMS MAY INCLUDE NUMBNESS OR TINGLING IN HANDS OR FEET, UNEVEN HEART RATE, PARALYSIS, FEELING FAINT, CHEST PAIN OR HEAVY FEELING, PAIN SPREADING TO THE ARM OR SHOULDER, NAUSEA, DIARRHEA, SWEATING, GENERAL ILL FEELING, OR SEIZURE (CONVULSIONS). IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-3 GLASSES OF WATER TO DRINK. IF CONSCIOUS, DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION. DO NOT LEAVE VICTIM UNATTENDED. TO PREVENT ASPIRATION OF SWALLOWED PRODUCT, LAY VICTIM ON SIDE WITH HEAD LOWER THAN WAIST.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:
 INHALATION OF PRODUCT MAY AGGRAVATE EXISTING CHRONIC RESPIRATORY PROBLEMS SUCH AS ASTHMA, EMPHYSEMA, OR BRONCHITIS. SKIN CONTACT MAY AGGRAVATE EXISTING SKIN DISEASE. CHRONIC OVEREXPOSURE MAY CAUSE PNEUMOCONIOSIS ("DUSTY LUNG" DISEASE).

SECTION 5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: NOT FLAMMABLE

FLASH POINT: NOT DETERMINED

SUITABLE EXTINGUISHING MEDIA:
 NON-COMBUSTIBLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING CONDITIONS.

HAZARDOUS COMBUSTION PRODUCTS: CARBON AND SULFUR OXIDES

EXPLOSION DATA:
 SENSITIVITY TO MECHANICAL IMPACT: NOT SENSITIVE
 SENSITIVITY TO STATIC DISCHARGE: NOT SENSITIVE

UNUSUAL FIRE/EXPLOSION HAZARDS:
 IN A FIRE THIS MATERIAL MAY DECOMPOSE, RELEASING OXIDES OF CARBON, SULFUR, POTASSIUM AND NITROGEN (SEE SECTION 10).

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:
 AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, NIOSH APPROVED OR EQUIVALENT AND FULL PROTECTIVE GEAR.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: AVOID CONTACT WITH SKIN, EYES, AND CLOTHING.

PERSONAL PROTECTIVE EQUIPMENT:
 MINIMUM - SAFETY GLASSES, GLOVES, AND A DUST RESPIRATOR.

EMERGENCY PROCEDURES: NA

METHODS FOR CONTAINMENT:
 PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

METHODS FOR CLEAN UP:
 AVOID DUST FORMATION; CLEAN UP RELEASED MATERIAL USING VACUUM OR WET SWEEP AND SHOVEL TO MINIMIZE GENERATION OF DUST. BAG AND TRANSFER TO PROPERLY LABELED CONTAINERS. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

ENVIRONMENTAL PRECAUTIONS: PREVENT MATERIAL FROM ENTERING WATERWAYS.

OTHER:
 IF PRODUCT IS CONTAMINATED, USE PPE AND CONTAINMENT APPROPRIATE TO THE NATURE OF THE MOST TOXIC CHEMICAL/MATERIAL IN THE MIXTURE.

SECTION 7. HANDLING AND STORAGE

PERSONAL PRECAUTIONS:
 USE APPROPRIATE PPE WHEN HANDLING OR MAINTAINING EQUIPMENT, AND WASH THOROUGHLY AFTER HANDLING (SEE SECTION 8).

CONDITIONS FOR SAFE STORAGE/HANDLING:
 KEEP PRODUCT IN ORIGINAL CONTAINER OR EXTINGUISHER. CONTENTS MAY BE UNDER PRESSURE - INSPECT FOR EXTINGUISHER RUST PERIODICALLY TO ENSURE CONTAINER INTEGRITY.

INCOMPATIBLE PRODUCTS:
 DO NOT MIX WITH OTHER EXTINGUISHING AGENTS, PARTICULARLY POTASSIUM BICARBONATE AND SODIUM BICARBONATE. INCOMPATIBLE WITH STRONG OXIDIZING AGENTS AND STRONG ACIDS. DO NOT STORE IN HIGH HUMIDITY. DO NOT COMBINE WITH CHLORINE COMPOUNDS.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	OSHA PEL	ACGIH TLV	DFG MAK*	EU BLV
MONO-AMMONIUM PHOSPHATE	FNOC**	FNOC	FNOC	NA
	TOTAL DUST, 15 MG/M3	TOTAL DUST, 10 MG/M3	TOTAL DUST, 4 MG/M3	
	RESPIRABLE FRACTION, 5 MG/M3	RESPIRABLE FRACTION, 3 MG/M3	RESPIRABLE FRACTION, 1.5 MG/M3	
AMMONIUM SULFATE	FNOC**	FNOC	FNOC	NA
	TOTAL DUST, 15 MG/M3	TOTAL DUST, 10 MG/M3	TOTAL DUST, 4 MG/M3	
	RESPIRABLE FRACTION, 5 MG/M3	RESPIRABLE FRACTION, 3 MG/M3	RESPIRABLE FRACTION, 1.5 MG/M3	
MICA	6 MG/M3	3 MG/M3	NR	NA
FULLERS EARTH	FNOC**	FNOC	FNOC	NA
	TOTAL DUST, 15 MG/M3	TOTAL DUST, 10 MG/M3	TOTAL DUST, 4 MG/M3	
	RESPIRABLE FRACTION, 5 MG/M3	RESPIRABLE FRACTION, 3 MG/M3	RESPIRABLE FRACTION, 1.5 MG/M3	
SILICONE OIL	NR**	NR	NR	NA
CALCIUM CARBONATE	FNOC	FNOC		NA
	TOTAL DUST, 15 MG/M3	TOTAL DUST, 10 MG/M3		
	RESPIRABLE FRACTION, 5 MG/M3	RESPIRABLE FRACTION, 3 MG/M3		
AMORPHOUS	80 MG/M3 & SILICA	10 MG/M3	4 MG/M3	NA

SILICA

YELLOW 14 NR NR NR NA
 PIGMENT

*GERMAN REGULATORY LIMITS

**PNO: PARTICULATES NOT OTHERWISE CLASSIFIED (ACGIH) ALSO KNOWN AS PARTICULATES NOT OTHERWISE REGULATED (OSHA)

***NR: NOT REGULATED.

ALL VALUES ARE 8 HOUR TIME WEIGHTED AVERAGE CONCENTRATIONS.

ENGINEERING CONTROLS:
 SHOWERS
 EYEWASH STATIONS
 VENTILATION SYSTEMS

PERSONAL PROTECTIVE EQUIPMENT - PPE CODE E:
 SAFETY GLASSES
 GLOVES
 FULL SUIT
 DUST MASK

EYE/FACE PROTECTION: TIGHTLY FITTING SAFETY GOGGLES

SKIN AND BODY PROTECTION: WEAR PROTECTIVE GLOVES/COVERALLS

RESPIRATORY PROTECTION:
 IF EXPOSURE LIMITS ARE EXCEEDED OR IRRITATION IS EXPERIENCED, NIOSH APPROVED RESPIRATORY PROTECTION SHOULD BE WORN. USE N95 DUST MASK FOR LIMITED EXPOSURE; USE AIR-PURIFYING RESPIRATOR (APR) WITH HIGH EFFICIENCY PARTICULATE AIR (HEPA) FILTERS FOR PROLONGED EXPOSURE. POSITIVE-PRESSURE-DEMAND SUPPLIED AIR RESPIRATORS MAY BE REQUIRED FOR HIGH AIRBORNE CONTAMINANT CONCENTRATIONS. RESPIRATORY PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH CURRENT LOCAL REGULATIONS. THE NEED FOR RESPIRATORY PROTECTION IS NOT LIKELY FOR SHORT-TERM USE IN WELL VENTILATED AREAS.

HYGIENE MEASURES:
 GOOD PERSONAL HYGIENE PRACTICES ESSENTIAL, SUCH AS AVOIDING FOOD, TOBACCO PRODUCTS, OR OTHER HAND-TO-MOUTH CONTACT WHEN HANDLING. WASH THOROUGHLY AFTER HANDLING.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: LIGHT YELLOW POWDER, FINELY DIVIDED ODORLESS SOLID

MOLECULAR WEIGHT:
 NH4H2PO4: 115.03
 (NH4)2SO4: 132.14

ODOR: ODORLESS

ODOR THRESHOLD: NO INFORMATION AVAILABLE

DECOMPOSITION TEMPERATURE DEG. C: 100 - 120

FREEZING POINT DEG. C: NO INFORMATION AVAILABLE

INITIAL BOILING POINT DEG. C: NO INFORMATION AVAILABLE

PHYSICAL STATE: CRYSTALLINE POWDER

PH:
 MIXTURE APPROXIMATELY 4 TO 5
 NH4H2PO4: 4.2 IN 0.2 MOLAR SOLUTION
 (NH4)2SO4: 5.5 IN 0.1 MOLAR SOLUTION

FLASH POINT DEG. C: NONE

AUTO-IGNITION TEMPERATURE DEG. C: NONE

BOILING POINT/RANGE DEG. C: NOT APPLICABLE

MELTING POINT/RANGE DEG. C:

NH4H2PO4: 190
 (NH4)2SO4: 280

FLAMMABILITY: NOT FLAMMABLE

FLAMMABILITY LIMITS IN AIR DEG. C:
 UPPER: NOT FLAMMABLE
 LOWER: NOT FLAMMABLE

EXPLOSIVE PROPERTIES: NONE

OXIDIZING PROPERTIES: NONE

VOLATILE COMPONENT (%VOL): NOT APPLICABLE

EVAPORATION RATE: NOT APPLICABLE

VAPOR DENSITY: NOT APPLICABLE

VAPOR PRESSURE: NOT APPLICABLE

SPECIFIC GRAVITY AT 25 C:
 NH4H2PO4: 1.80
 (NH4)2SO4: 1.77

SOLUBILITY: COATED-NOT IMMEDIATELY SOLUBLE IN WATER

PARTITION COEFFICIENT:
 NH4H2PO4 EST: -4.11
 (NH4)2SO4: EST: -0.48

VISCOSITY: NOT APPLICABLE

NOTE:
 NH4H2PO4: MONOAMMONIUM PHOSPHATE
 (NH4)2SO4: AMMONIUM SULFATE

SECTION 10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER RECOMMENDED STORAGE AND HANDLING CONDITIONS.

REACTIVITY:

INCOMPATIBLES:
STRONG ALKALIS (BASES), MAGNESIUM, STRONG OXIDIZERS, ISOCYANURIC ACIDS AND CHLORINE COMPOUNDS.

CONDITIONS TO AVOID: STORAGE OR HANDLING NEAR INCOMPATIBLES.

HAZARDOUS DECOMPOSITION PRODUCTS:
HEAT OF FIRE MAY RELEASE CARBON MONOXIDE, CARBON DIOXIDE, AND SULFUR DIOXIDE. ALSO AMMONIA, OXIDES OF PHOSPHOROUS AND NITROGEN OXIDES MAY BE RELEASED DURING DECOMPOSITION.

POSSIBILITY OF HAZARDOUS REACTIONS: SLIGHT

HAZARDOUS POLYMERIZATION: DOES NOT OCCUR

SECTION 11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: INHALATION, SKIN, AND EYE CONTACT.

SYMPTOMS:

IMMEDIATE:
INHALATION: IRRITATION, COUGHING.
EYES: IRRITATION.
SKIN: IRRITATION.

DELAYED: SYMPTOMS APPEAR TO BE RELATIVELY IMMEDIATE

ACUTE TOXICITY: RELATIVELY NON-TOXIC.

CHRONIC TOXICITY:

SHORT-TERM EXPOSURE: NONE KNOWN.

LONG-TERM EXPOSURE:
AS WITH ALL DUSTS, PNEUMOCONIOSIS, OR "DUSTY LUNG" DISEASE, MAY RESULT FROM CHRONIC EXPOSURE.

ACUTE TOXICITY VALUES - HEALTH:

CHEMICAL NAME	ORAL LD50	DERMAL	LC50 (INHALATION)
MONO-AMMONIUM PHOSPHATE	5750 MG/KG (RAT)	>7940 MG/KG (RABBIT)	NOT AVAILABLE
AMMONIUM SULFATE	2840 MG/KG (RAT)	NOT AVAILABLE	NOT AVAILABLE
MICA	NONE	NONE	NONE
FULLERS EARTH	NONE	NONE	NONE
SILICONE OIL	NONE	NONE	NONE
CALCIUM CARBONATE	6450 MG/KG (RAT)	500 MG/24 HR (RABBIT)	NOT AVAILABLE
AMORPHOUS SILICA	>5000 MG/KG (RAT)	>2000 MG/KG (RABBIT)	>2.2 MG/L (RAT)
YELLOW 14 PIGMENT	>17000 MG/KG (RAT)	>3000 MG/KG (RAT)	>4448 MG/M3 (RAT)

REPRODUCTIVE TOXICITY:
THIS PRODUCT'S INGREDIENTS ARE NOT KNOWN TO HAVE REPRODUCTIVE OR TERATOGENIC EFFECTS.

TARGET ORGANS AND EFFECTS (TOST):
RESPIRATORY SYSTEM IRRITANT).

THIS PRODUCT IS A MILD IRRITANT TO EPITHELIAL TISSUE, (EYES, MUCOUS MEMBRANES, SKIN) AND MAY AGGRAVATE DERMATITIS. NO INFORMATION WAS FOUND INDICATING THE PRODUCT CAUSES SENSITIZATION.

OTHER TOXICITY CATEGORIES:

CHEMICAL NAME	GERM CELL MUTAGENICITY	CARCINOGENICITY	REPRODUCTIVE
MONO-AMMONIUM PHOSPHATE	NONE	NONE	NONE
AMMONIUM SULFATE	NONE	NONE	NONE
FULLERS EARTH	NONE	NONE	NONE
MICA	NONE	NONE	NONE
SILICONE OIL	NONE	NONE	NONE
CALCIUM CARBONATE	NONE	NONE	NONE
AMORPHOUS SILICA	NONE	NONE	NONE
YELLOW 14 PIGMENT	NONE	NONE	NONE

CHEMICAL NAME	TOST SINGLE EXP	TOST REPEATED EXP	ASPIRATION
MONO-AMMONIUM PHOSPHATE	CAT 3	NONE	NONE
AMMONIUM SULFATE	CAT 3	NONE	NONE
FULLERS EARTH	NONE	NONE	NONE
MICA	NONE	NONE	NONE
SILICONE OIL	NONE	NONE	NONE
CALCIUM CARBONATE	NONE	NONE	NONE
AMORPHOUS SILICA	NONE	NONE	NONE
YELLOW 14 PIGMENT	NONE	NONE	NONE

ECOTOXICITY:

NEGATIVE EFFECTS UNKNOWN. PROVIDES NUTRIENT NITROGEN AND PHOSPHORUS TO PLANT LIFE.

PERSISTENCE/DEGRADABILITY: DEGRADES RAPIDLY IN HUMID/WET ENVIRONMENT.

PROBABILITY OF RAPID BIODEGRADATION:

NH4H2PO4 EST: 0.693 (RAPID)
(NH4)2SO4 EST: 0.684 (RAPID)

ANAEROBIC BIODEGRADATION PROBABILITY:

NH4H2PO4 EST: 0.398 (SLOW)
(NH4)2SO4 EST: 0.398 (SLOW)

BIOACCUMULATION POTENTIAL: LOW.

BIOCONCENTRATION FACTOR:

NH4H2PO4: 3.16 L/KG
(NH4)2SO4: 3.16 L/KG (WET WEIGHT)

BIOACCUMULATION: EXTENT UNKNOWN.

MOBILITY IN SOIL:

SLOW EVAPORATION RATE; WATER SOLUBLE, MAY LEACH TO GROUNDWATER

LOG KOC:

NH4H2PO4 EST: -1.25
(NH4)2SO4 EST: 1.35

LOG KOA:

NH4H2PO4 EST: 16.72
(NH4)2SO4 EST: 20.10

LOG KAW:

NH4H2PO4 EST: -20.86
(NH4)2SO4 EST: -19.62

NOTE:

NH4H2PO4: MONOAMMONIUM PHOSPHATE
(NH4)2SO4: AMMONIUM SULFATE

OTHER ADVERSE ECOLOGICAL EFFECTS: NO OTHER KNOWN EFFECTS AT THIS TIME

AQUATIC TOXICITY VALUES - ENVIRONMENT - RESEARCH:

CHEMICAL NAME	ACUTE (LC50)	CHRONIC (LC50)
MONOAMMONIUM PHOSPHATE	N/A	N/A
AMMONIUM SULFATE	N/A	N/A
MICA	N/A	N/A
FULLERS EARTH	N/A	N/A
SILICONE OIL	N/A	N/A
CALCIUM CARBONATE	N/A	N/A
AMORPHOUS SILICA	N/A	N/A
YELLOW 14 PIGMENT	N/A	N/A

AQUATIC TOXICITY VALUES - ENVIRONMENT - ESTIMATES:

CHEMICAL NAME	ACUTE (LC50)	EC50
MONOAMMONIUM PHOSPHATE	2.91E+07 MG/L FISH 96 HR 9.4E+06 MG/L DAPHNID 48 HR	6.70E+05 MG/L GR. ALGAE 96 HR
AMMONIUM SULFATE	2521 MG/L FISH 96 HR 1244 MG/L DAPHNID 48 HR	518 MG/L GR. ALGAE 96 HR
MICA	N/A	N/A
FULLERS EARTH	N/A	N/A
SILICONE OIL	N/A	N/A
CALCIUM CARBONATE	N/A	N/A
AMORPHOUS SILICA	N/A	N/A
YELLOW 14 PIGMENT	N/A	N/A

SECTION 13. DISPOSAL CONSIDERATIONS

SAFE HANDLING:

USE APPROPRIATE PPE WHEN HANDLING, AND WASH THOROUGHLY AFTER HANDLING (SEE SECTION 8).

WASTE DISPOSAL CONSIDERATIONS:

DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

CONTAMINATED PACKAGING:

DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

NOTES:

THIS PRODUCT IS NOT A RCRA CHARACTERISTICALLY HAZARDOUS OR LISTED HAZARDOUS WASTE. DISPOSE OF ACCORDING TO STATE OR LOCAL LAWS, WHICH MAY BE MORE RESTRICTIVE THAN FEDERAL LAWS OR REGULATIONS. USED PRODUCT MAY BE ALTERED OR CONTAMINATED, CREATING DIFFERENT DISPOSAL CONSIDERATIONS.

SECTION 14. TRANSPORT INFORMATION

UN NUMBER: NA

UN PROPER SHIPPING NAME: NA

TRANSPORT HAZARD CLASS: NA

PACKING GROUP: NA

MARINE POLLUTANT?: NO

IATA: NOT REGULATED

DOT: NOT REGULATED

NOTES:
THIS PRODUCT IS NOT DEFINED AS A HAZARDOUS MATERIAL UNDER U.S. DEPARTMENT OF TRANSPORTATION (DOT) 49 CFR 172, OR BY TRANSPORT CANADA "TRANSPORTATION OF DANGEROUS GOODS" REGULATIONS.

SPECIAL PRECAUTIONS FOR SHIPPING:
IF SHIPPED IN A STORED PRESSURE-TYPE FIRE EXTINGUISHER, AND PRESSURIZED WITH A NON-FLAMMABLE, NON-TOXIC INERT EXPELLANT GAS, THE FIRE EXTINGUISHER IS CONSIDERED A HAZARDOUS MATERIAL BY THE US DEPARTMENT OF TRANSPORTATION AND TRANSPORT CANADA. THE PROPER SHIPPING NAME SHALL BE FIRE EXTINGUISHER AND THE UN DESIGNATION IS UN 1044. THE DOT HAZARD CLASS IS LIMITED QUANTITY WHEN PRESSURIZED TO LESS THAN 241 PSIG AND WHEN SHIPPED VIA HIGHWAY OR RAIL. USE A NONFLAMMABLE GAS LABEL (CLASS 2.2) WHEN SHIPPING VIA AIR.

SECTION 15. REGULATORY INFORMATION

INTERNATIONAL INVENTORY STATUS:
ALL INGREDIENTS ARE ON THE FOLLOWING INVENTORIES

COUNTRY(IES)	AGENCY	STATUS
UNITED STATES OF AMERICA	TSCA	YES
CANADA	DSL	YES
EUROPE	EINECS/ELINCS	YES
AUSTRALIA	AICS	YES
JAPAN	MITI	YES
SOUTH KOREA	KECL	YES

REACH TITLE VII RESTRICTIONS: NO INFORMATION AVAILABLE

CHEMICAL NAME	DANGEROUS SUBSTANCES	ORGANIC SOLVENTS	HARMFUL SUBSTANCES WHOSE NAMES ARE TO BE INDICATED ON LABEL
MONOAMMONIUM PHOSPHATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
AMMONIUM SULFATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

CHEMICAL NAME	POLLUTION RELEASE AND TRANSFER REGISTRY (CLASS II)	POLLUTION RELEASE AND TRANSFER REGISTRY (CLASS I)	POISON AND DELETERIOUS SUBSTANCES CONTROL LAW
MONOAMMONIUM PHOSPHATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
AMMONIUM SULFATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

COMPONENT	ISHA - HARMFUL SUBSTANCES PROHIBITED FOR MANUFACTURING, IMPORTING, TRANSFERRING, OR SUPPLYING	ISHA - HARMFUL SUBSTANCES REQUIRING PERMISSION
MONOAMMONIUM PHOSPHATE 7722-76-1	NOT APPLICABLE	NOT APPLICABLE
AMMONIUM SULPHATE	NOT APPLICABLE	NOT APPLICABLE
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE 8031-18-3 (>4)	NOT APPLICABLE	NOT APPLICABLE
MICA-POTASSIUM ALUMINUM SILICATE 120001-26-2 (>2)	NOT APPLICABLE	NOT APPLICABLE
CALCIUM CARBONATE 471-34-1	NOT APPLICABLE	NOT APPLICABLE
AMORPHOUS SILICA 69012-64-2	NOT APPLICABLE	NOT APPLICABLE
YELLOW 14 PIGMENT 5468-75-7	NOT APPLICABLE	NOT APPLICABLE

COMPONENT	TOXIC CHEMICAL CLASSIFICATION LISTING (TOCL) - TOXIC CHEMICALS	TOXIC RELEASE INVENTORY (TRI) - GROUP I	TOXIC RELEASE INVENTORY (TRI) - GROUP II
MONOAMMONIUM PHOSPHATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
AMMONIUM SULPHATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
MICA-POTASSIUM ALUMINUM SILICATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
CALCIUM CARBONATE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
AMORPHOUS SILICA	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
YELLOW 14 PIGMENT	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

EUROPEAN RISK AND SAFETY PHRASES:

EU CLASSIFICATION: IRRITANT

R PHRASES:
20: HARMFUL BY INHALATION.
36/37: IRRITATING TO EYES, RESPIRATORY SYSTEM.

S PHRASES:
22: DO NOT BREATHE DUST.

24/25: AVOID CONTACT WITH SKIN AND EYES

26:
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

36: WEAR SUITABLE PROTECTIVE CLOTHING.

U.S. FEDERAL REGULATORY INFORMATION:

SARA 313:
SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) - THIS PRODUCT DOES NOT CONTAIN AND CHEMICALS WHICH ARE SUBJECT TO THE REPORTING REQUIREMENTS OF THE ACT AND TITLE 40 OF THE CODE OF FEDERAL REGULATIONS, PART 372.

NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER SARA REPORTING REQUIREMENTS OR HAVE SARA THRESHOLD PLANNING QUANTITIES (TPQS) OR CERCLA REPORTABLE QUANTITIES (RQS), OR ARE REGULATED UNDER TSCA 8(D).

SARA 311/312:

HAZARD CATEGORIES:
ACUTE HEALTH HAZARD: YES
CHRONIC HEALTH HAZARD: NO
FIRE HAZARD: NO
SUDDEN RELEASE OF PRESSURE HAZARD-*: YES
REACTIVE HAZARD: NO

* - ONLY APPLICABLE IF MATERIAL IS IN A PRESSURIZED EXTINGUISHER.

CLEAN WATER ACT:
THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES REGULATED AS POLLUTANTS PURSUANT TO THE CLEAN WATER ACT (40 CFR 122.21 AND 40 CFR 122.42)

CLEAN AIR ACT, SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) (SEE 40 CFR 61)

THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES REGULATED AS HAZARDOUS AIR POLLUTANTS (HAPS) UNDER SECTION 112 OF THE CLEAN AIR ACT AMENDMENTS OF 1990.

U.S. STATE REGULATORY INFORMATION:

CHEMICALS IN THIS PRODUCT ARE COVERED UNDER SPECIFIC STATE REGULATIONS, AS DENOTED BELOW:

ALASKA - DESIGNATED TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA - PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS: NONE

FLORIDA - SUBSTANCE LIST: MICA DUST

ILLINOIS - TOXIC SUBSTANCE LIST: NONE

KANSAS - SECTION 302/303 LIST: NONE

MASSACHUSETTS - SUBSTANCE LIST: MICA DUST

MINNESOTA - LIST OF HAZARDOUS SUBSTANCES: NONE

MISSOURI - EMPLOYER INFORMATION/TOXIC SUBSTANCE LIST: NONE

NEW JERSEY - RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST: NONE

NORTH DAKOTA - LIST OF HAZARDOUS CHEMICALS, REPORTABLE QUANTITIES: NONE

PENNSYLVANIA - HAZARDOUS SUBSTANCE LIST: NONE

RHODE ISLAND - HAZARDOUS SUBSTANCE LIST: MICA DUST

TEXAS - HAZARDOUS SUBSTANCE LIST: NO

WEST VIRGINIA - HAZARDOUS SUBSTANCE LIST: NONE

WISCONSIN - TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA PROPOSITION 65:
NO COMPONENT IS LISTED ON THE CALIFORNIA PROPOSITION 65 LIST.

OTHER:
MEXICO - GRADE: NO COMPONENT LISTED
CANADA - WHMIS HAZARD CLASS: NO COMPONENT LISTED

SECTION 16. OTHER INFORMATION

THIS SDS CONFORMS TO REQUIREMENTS UNDER U.S., U.K., CANADIAN, AUSTRALIAN, AND EU REGULATIONS OR STANDARDS, AND CONFORMS TO THE PROPOSED 2003 ANSI Z400.1 FORMAT.

ISSUING DATE: 17-JUNE-2012

REVISION DATE: 17-OCTOBER-2013

REVISION DATE: 06-JANUARY-2015

REVISION NOTES: NONE

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE. UPDATED BY WILLIAM F. GARVIN, CIH.