

ITEM: 4XP89 - Fire Extinguisher Dry Chemical ABC 4A

MSDS: B9391

ORDER: 0119341796

LP NUMBER: U854083236

MATERIAL SAFETY DATA SHEET (MSDS)

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

***** MATERIAL SAFETY DATA SHEET - B9391 *****

Associated Grainger Items
1FBJ9, 1FBK1, 1RK32, 4T300, 4T889, 4XP78, 4XP79, 4XP83, 4XP84, 4XP87, 4XP88
4XP89, 4XP90, 5T899, 5T903, 5T904, 4T301, 1DGV4, 2EHE6

KIDDE
A UTC FIRE & SECURITY COMPANY

MATERIAL SAFETY DATA SHEET
COMMERCIAL ABC DRY CHEMICAL
(FIRE EXTINGUISHING AGENT)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

PRODUCT NAME: COMMERCIAL ABC DRY CHEMICAL (FIRE EXTINGUISHING AGENT)

OTHER TRADE NAMES: MULTI-PURPOSE, AMMONIUM PHOSPHATE, MONOAMMONIUM PHOSPHATE

PRODUCT DESCRIPTION: FIRE EXTINGUISHING AGENT

MANUFACTURER/SUPPLIER: KIDDE - RESIDENTIAL AND COMMERCIAL

ADDRESS:
1016 CORPORATE PARK DRIVE
MEEHANE, NC 27302
USA

PHONE NUMBER:
(919) 563-5911
(919) 304-8200

CHEMTREC NUMBER (FOR EMERGENCIES ONLY):
(800) 424-9300
(703) 527-3887 (INTERNATIONAL)

REVISION DATE: MARCH 4, 2010

MSDS DATE: JANUARY 15, 2007

SAFETY DATA SHEET ACCORDING TO EC DIRECTIVE 2001/59/EC AND OSHA'S HAZCOM STANDARD (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

EU MAIN HAZARDS: NON HAZARDOUS POWDER

ROUTES OF ENTRY:
EYE CONTACT
INHALATION
SKIN CONTACT

CARCINOGENIC STATUS: SEE SECTION 11 - TOXICITY

TARGET ORGANS:
RESPIRATORY SYSTEM
SKIN
EYE

HEALTH EFFECTS - EYES: CONTACT FOR SHORT PERIODS OF TIME MAY CAUSE IRRITATION.

HEALTH EFFECTS - SKIN: CONTACT MAY CAUSE MILD IRRITATION.

HEALTH EFFECTS - INGESTION: INGESTION IS NOT AN EXPECTED ROUTE OF EXPOSURE.

HEALTH EFFECTS - INHALATION:
MAY IRRITATE THE RESPIRATORY TRACT. MAY CAUSE TRANSIENT COUGH AND SHORTNESS OF BREATH.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT NAME CLASSIFICATION | CAS#/CODES | CONCENTRATION | R PHRASES | EU |
|-------------------------------|-------------------------|---------------|-----------|------|
| MONOAMMONIUM PHOSPHATE | 7722-76-1 EC#2317645 | 55 - 65% | NONE | NONE |
| AMMONIUM SULFATE | 7783-20-2 EC#2319841 | 30 - 40% | NONE | NONE |
| MICA | 12001-26-2 | 1 - 4% | NONE | NONE |
| CLAY | 8031-18-3 | <2% | NONE | NONE |
| AMORPHOUS SILICA | 7631-86-9 EC#2315454 | <2% | NONE | NONE |
| DYE | NA | <0.1% | NONE | NONE |

4. FIRST AID MEASURES

EYES:
IMMEDIATELY FLOOD THE EYE WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, HOLDING THE EYE OPEN. OBTAIN MEDICAL ATTENTION IF SORENESS OR REDNESS PERSISTS.

SKIN:
WASH AFFECTED AREA WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION:
DILUTE BY DRINKING LARGE QUANTITIES OF WATER AND OBTAIN MEDICAL ATTENTION.

INHALATION:
MOVE VICTIM TO FRESH AIR. OBTAIN MEDICAL ATTENTION IMMEDIATELY FOR ANY BREATHING DIFFICULTY.

ADVICE TO PHYSICIANS: TREAT SYMPTOMATICALLY.

5. FIRE - FIGHTING MEASURES

EXTINGUISHING MEDIA:
THIS PREPARATION IS USED AS AN EXTINGUISHING AGENT AND THEREFORE IS NOT A PROBLEM WHEN TRYING TO CONTROL A BLAZE. USE EXTINGUISHING AGENT APPROPRIATE TO OTHER MATERIALS INVOLVED. KEEP PRESSURIZED EXTINGUISHERS AND SURROUNDINGS COOL WITH WATER SPRAY AS THEY MAY RUPTURE OR BURST IN THE HEAT OF A FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
PRESSURIZED CONTAINERS MAY EXPLODE IN HEAT OF FIRE.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTING:
WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS AS APPROPRIATE FOR SPECIFIC FIRE CONDITIONS.

6. ACCIDENTAL RELEASE MEASURES

SWEEP UP OR VACUUM. PREVENT SKIN AND EYE CONTACT. WEAR APPROPRIATE PROTECTIVE EQUIPMENT.

7. HANDLING AND STORAGE

PRESSURIZED EXTINGUISHERS SHOULD BE PROPERLY STORED AND SECURED TO PREVENT FALLING OR BEING KNOCKED OVER. DO NOT DRAG, SLIDE OR ROLL EXTINGUISHERS. DO NOT DROP EXTINGUISHERS OR PERMIT THEM TO STRIKE AGAINST EACH OTHER. NEVER APPLY FLAME OR LOCALIZED HEAT DIRECTLY TO ANY PART OF THE EXTINGUISHER OR PLASTIC CONTAINER. STORE PRESSURIZED EXTINGUISHERS AND PLASTIC CONTAINERS FROM HIGH HEAT SOURCES.

STORAGE AREA SHOULD BE:
COOL - DRY - WELL VENTILATED - UNDER COVER - OUT OF DIRECT SUNLIGHT

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS:
OCCUPATIONAL EXPOSURE LIMITS ARE LISTED BELOW, IF THEY EXIST.

MICA:
ACGIH TLV: 3 MG/M3 TWA, MEASURED AS RESPIRABLE FRACTION OF THE AEROSOL.
OSHA PEL: 20 MPPCF, <1% CRYSTALLINE SILICA

NUISANCE DUST LIMIT:

OSHA PEL:
50 MPPCF OR 15 MG/M3 TWA, TOTAL DUST
15 MPPCF OR 5 MG/M3 TWA, RESPIRABLE FRACTION

ENGINEERING CONTROL MEASURES:
USE WITH ADEQUATE VENTILATION. THERE SHOULD BE LOCAL PROCEDURES FOR THE SELECTION, TRAINING, INSPECTION AND MAINTENANCE OF THIS EQUIPMENT. WHEN USED IN LARGE VOLUMES, USE LOCAL EXHAUST VENTILATION.

RESPIRATORY PROTECTION:
NOT NORMALLY REQUIRED. USE DUST MASK WHERE DUSTINESS IS PREVALENT, OR TLV IS EXCEEDED.

HAND PROTECTION:
NOT NORMALLY NEEDED WHEN USED AS A PORTABLE FIRE EXTINGUISHER. USE GLOVES IF IRRITATION OCCURS.

EYE PROTECTION: CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

BODY PROTECTION: NORMAL WORK WEAR.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: POWDER

COLOR: PALE YELLOW

ODOR: ODORLESS

SPECIFIC GRAVITY: NOT AVAILABLE

BOILING RANGE/POINT (DEG. C/F): NOT APPLICABLE

FLASH POINT (FMCC) (DEG. C/F): NOT FLAMMABLE

SOLUBILITY IN WATER: NOT APPLICABLE

VAPOR DENSITY (AIR = 1): HEAVIER THAN AIR.

VAPOR PRESSURE: NOT APPLICABLE

EVAPORATION RATE: NOT APPLICABLE

10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: HEAT - HIGH TEMPERATURES - EXPOSURE TO DIRECT SUNLIGHT

MATERIALS TO AVOID:
STRONG OXIDIZING AGENTS - STRONG ACIDS - SODIUM HYPOCHLORITE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:
OXIDES OF CARBON - AMMONIA - OXIDES OF PHOSPHORUS - NITROGEN OXIDES

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: LOW ORDER OF ACUTE TOXICITY.

CHRONIC TOXICITY/CARCINOGENICITY:
THIS PRODUCT IS NOT EXPECTED TO CAUSE LONG TERM ADVERSE HEALTH EFFECTS.

MICA AND CLAY MAY CONTAIN SMALL QUANTITIES OF QUARTZ (CRYSTALLINE SILICA) AS AN IMPURITY. PROLONGED EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA DUST AT CONCENTRATIONS EXCEEDING THE OCCUPATIONAL EXPOSURE LIMITS MAY INCREASE THE RISK OF DEVELOPING A DISABLING LUNG DISEASE KNOWN AS SILICOSIS. IARC FOUND LIMITED EVIDENCE FOR PULMONARY CARCINOGENICITY OF CRYSTALLINE SILICA IN HUMANS.

GENOTOXICITY: THIS PRODUCT IS NOT EXPECTED TO CAUSE ANY MUTAGENIC EFFECTS.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY:
THIS PRODUCT IS NOT EXPECTED TO CAUSE ADVERSE REPRODUCTIVE EFFECTS.

12. ECOLOGICAL INFORMATION

MOBILITY: NO RELEVANT STUDIES IDENTIFIED.

PERSISTENCE/DEGRADABILITY: NO RELEVANT STUDIES IDENTIFIED.

BIO-ACCUMULATION: NO RELEVANT STUDIES IDENTIFIED.

ECOTOXICITY: NO RELEVANT STUDIES IDENTIFIED.

13. DISPOSAL CONSIDERATIONS

DISPOSE OF CONTAINER IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND NATIONAL REGULATIONS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR TO THE CONTAINER. NO HARM TO THE ENVIRONMENT IS EXPECTED FROM THIS PREPARATION.

14. TRANSPORT INFORMATION

DOT CFR 172.101 DATA: NOT REGULATED

UN PROPER SHIPPING NAME: NOT REGULATED

UN CLASS: NONE

UN NUMBER: NONE

UN PACKAGING GROUP: NONE

15. REGULATORY INFORMATION

EU LABEL INFORMATION:
CLASSIFICATION AND LABELLING HAVE BEEN PERFORMED ACCORDING TO EU DIRECTIVES 67/548/EEC AND 99/45/EC INCLUDING AMENDMENTS (2001/60/EC AND 2006/8/EC)

EU HAZARD SYMBOL AND INDICATION OF DANGER.:
THIS PREPARATION IS NOT CLASSIFIED AS DANGEROUS.

R PHRASES: NONE

S PHRASES: NONE.

US REGULATIONS (FEDERAL, STATE) AND INTERNATIONAL CHEMICAL REGISTRATION LAWS:

TSCA LISTING:
THIS PRODUCT CONTAINS INGREDIENTS THAT ARE LISTED ON OR EXEMPT FROM LISTING ON THE EPA TOXIC SUBSTANCE CONTROL ACT CHEMICAL SUBSTANCE INVENTORY.

EINECS LISTING:
ALL INGREDIENTS IN THIS PRODUCT HAVE NOT BEEN VERIFIED FOR LISTING ON THE EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS) OR THE EUROPEAN LIST OF NEW CHEMICAL SUBSTANCES (ELINCS).

DSL/NDSL (CANADIAN) LISTING:
ALL INGREDIENTS IN THIS PRODUCT ARE LISTED ON THE DOMESTIC SUBSTANCE LIST (DSL) OR THE NON-DOMESTIC SUBSTANCE LIST (NDSL) OR ARE EXEMPT FROM LISTING.

WHMIS CLASSIFICATION: D2B

THIS PRODUCT WAS CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THESE REGULATIONS.

MA RIGHT TO KNOW LAW:
ALL COMPONENTS HAVE BEEN CHECKED FOR INCLUSION ON THE MASSACHUSETTS SUBSTANCE LIST (MSL).

THOSE COMPONENTS PRESENT AT OR ABOVE THE DE MINIMIS CONCENTRATION INCLUDE:

| | | |
|------------------|--------------|----------|
| MICA | (12001-26-2) | 1 - 4% |
| AMORPHOUS SILICA | (7631-86-9) | <2% |
| AMMONIUM SULFATE | (7783-20-2) | 30 - 40% |

PA RIGHT TO KNOW LAW:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS FOUND ON THE PENNSYLVANIA HAZARDOUS SUBSTANCE LIST:

| | | |
|------------------|--------------|----------|
| MICA | (12001-26-2) | 1 - 4% |
| AMORPHOUS SILICA | (7631-86-9) | <2% |
| AMMONIUM SULFATE | (7783-20-2) | 30 - 40% |

NJ RIGHT TO KNOW LAW:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS FOUND ON THE NJ RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST:

| | | |
|------|--------------|--------|
| MICA | (12001-26-2) | 1 - 4% |
|------|--------------|--------|

AMORPHOUS SILICA (7631-86-9) <2%

CALIFORNIA PROPOSITION 65:
THIS PRODUCT DOES NOT CONTAIN MATERIALS WHICH THE STATE OF CALIFORNIA HAS FOUND TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SARA TITLE III SECT. 302 (EHS):
THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS SUBJECT TO SARA TITLE III SECTION 302.

SARA TITLE III SECT. 304:
THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS SUBJECT TO SARA TITLE III SECTION 304.

SARA TITLE III SECT. 311/312 CATEGORIZATION: IMMEDIATE (ACUTE) HEALTH HAZARD

SARA TITLE III SECT. 313:
THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS THAT ARE LISTED IN SECTION 313 AT OR ABOVE DE MINIMIS CONCENTRATIONS.

16. OTHER INFORMATION

NFPA RATINGS:
NFPA CODE FOR HEALTH 1
NFPA CODE FOR FLAMMABILITY 0
NFPA CODE FOR REACTIVITY 0
NFPA CODE FOR SPECIAL HAZARDS NONE

HMS RATINGS:
HMS CODE FOR HEALTH 1
HMS CODE FOR FLAMMABILITY 0
HMS CODE FOR REACTIVITY 0
HMS CODE FOR PERSONAL PROTECTION SEE SECTION 8

ABBREVIATIONS:
N/A: DENOTES NO APPLICABLE INFORMATION FOUND OR AVAILABLE
CAS#: CHEMICAL ABSTRACTS SERVICE NUMBER
ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
TLV: THRESHOLD LIMIT VALUE
PEL: PERMISSIBLE EXPOSURE LIMIT
STEL: SHORT TERM EXPOSURE LIMIT
NTP: NATIONAL TOXICOLOGY PROGRAM
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
R: RISK
S: SAFETY

PREPARED BY: ENVIRONET LLC.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE ACCURATE. HOWEVER, NO REPRESENTATION, WARRANTY, OR GUARANTEE IS MADE TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR ITS OWN PARTICULAR USE. KIDDE - RESIDENTIAL AND COMMERCIAL ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE RESULTING FROM USE, HANDLING OR FROM CONTACT WITH THIS PRODUCT.

ITEM: 4XP89 - Fire Extingisher Dry Chemical ABC 4A

MSDS: C3522

ORDER: 0119341796

LP NUMBER: U854083236

MATERIAL SAFETY DATA SHEET (MSDS)

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

***** MATERIAL SAFETY DATA SHEET - C3522 *****

Associated Grainger Items
1FBJ9, 1FBKL, 1RK32, 4T300, 4T889, 4XP78, 4XP79, 4XP83, 4XP84, 4XP87, 4XP88
4XP89, 4XP90, 5T899, 5T903, 5T904, 4T301, 1DGV4, 2EHE6

AMERIGLO, LLC

SAFETY DATA SHEET

ACCORDING TO 91/155/EEC

AMERIGLO SAFETY DATA SHEET

VERSION: 2.02

DATE/REVISED: 05.09.2004

PRODUCT: LIGHT STICK - ALL COLORS, ALL TYPES

1. PRODUCT AND COMPANY IDENTIFICATION

NAME ON LABEL: LIGHT STICK

SUPPLIER:
AMERIGLO, 5579B CHAMBLEE DUNWOODY ROAD
SUITE 214, ATLANTA, GA 30338
USA

ALTERNATIVE NAMES: GLOWING STICK, MARKER LIGHTS, CHEMILUMINESCENT TUBE

2. COMPOSITION/INFORMATION ON INGREDIENT

CHEMICAL NATURE:
PLASTIC ARTICLE CONTAINING LUMINESCER AND ACTIVATOR COMPONENTS

HAZARDOUS INGREDIENTS:

NAME: 2-METHYL-2-PROPANOL

CONCENTRATION RANGE: 3.0%-6.5% (W/W)

CAS NO.: 75-65-0

3. HAZARDS IDENTIFICATION

DESIGNATION: NO SPECIFIC HAZARD

RISK PHRASES: NONE SPECIFIED

4. FIRST-AID MEASURES

GENERAL ADVICE: REMOVE CONTAMINATED CLOTHING.

IF INHALED: REMOVE TO FRESH AIR. SEEK MEDICAL ADVICE IF SYMPTOMS PERSIST.

ON SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER.

ON CONTACT WITH EYES:
WASH AFFECTED EYES FOR AT LEAST 15 MINUTES UNDER RUNNING WATER WITH EYELIDS
HELD OPEN, CONSULT AN EYE SPECIALIST.

ON INGESTION:
RINSE OUT MOUTH AND DRINK PLENTY OF WATER. IF UNUSUAL SYMPTOMS ARE
OBSERVED, SEEK MEDICAL ADVICE.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:
POWDER, FOAM, CARBON DIOXIDE FIRE EXTINGUISHING AGENT

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
WEAR PROTECTIVE EQUIPMENT INCLUDING RUBBER GLOVES, AND EYE PROTECTION.
KEEP UNPROTECTED PERSONS AWAY.

ENVIRONMENTAL PRECAUTIONS:
TAKE PRECAUTIONS TO ENSURE PRODUCT DOES NOT ENTER THE DRAINAGE SYSTEM.

METHODS FOR CLEANING UP:
MIX WITH VERMICULITE OR PROPRIETARY ABSORBENT MATERIAL AND TRANSFER TO
SEALED CONTAINERS FOR DISPOSAL.

7. HANDLING AND STORAGE

HANDLING:
CHEMICALS SHOULD BE USED ONLY BY THOSE TRAINED IN HANDLING POTENTIALLY
HAZARDOUS MATERIALS. RUBBER GLOVES, EYE PROTECTION AND PROTECTIVE CLOTHING
SHOULD BE WORN.

STORAGE:
STORE IN A COOL AND DRY PLACE. KEEP AWAY FROM STRONG OXIDIZING AGENTS,
STRONG ACID.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATION: AVOID INHALATION OF PRODUCT.

EYE: AVOID EYE CONTACT. WEAR SAFETY SPECTACLES OR GOGGLES.

HANDS AND BODY:
AVOID UNNECESSARY SKIN CONTACT. WEAR RUBBER GLOVES AND PROTECTIVE CLOTHING.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:
ARTICLE CONSISTING OF PLASTIC TUBE OR SHAPE CONTAINING GLASS AMPOULE WITH
LUMINESCER AND ACTIVATOR COMPONENTS.

PH: NOT APPLICABLE

BOILING POINT: >340 DEG. C

FLASH POINT: >94.2 DEG. C (CLOSED CUP)

EXPLOSION PROPERTIES: NOT APPLICABLE

DENSITY: 1.1-1.2

WATER SOLUBILITY: UNSOLUBLE

10. STABILITY AND REACTIVITY

STABILITY: STABLE

POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBILITIES: NONE KNOWN

DECOMPOSITION:
HAZARDOUS DECOMPOSITION PRODUCTS MAY INCLUDE: CARBON MONOXIDE, CARBON
DIOXIDE.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:
THE ACUTE ORAL (RAT) AND ACUTE DERMAL (RABBIT) LD50 VALUES ESTIMATED TO BE
GREATER THAN 5.0 G/KG.

IRRITATION:
DIRECT CONTACT WITH THIS MATERIAL MAY RESULT IN MINIMAL EYE IRRITATION.

12. ECOLOGICAL INFORMATION

GENERAL:
TAKE CARE TO PREVENT CHEMICALS FROM ENTERING THE GROUND, WATER SYSTEMS OR
DRAINAGE SYSTEMS.

13. DISPOSAL CONSIDERATIONS

DISPOSAL:
MUST BE DUMPED OR INCINERATED IN ACCORDANCE WITH LOCAL REGULATIONS.

14. TRANSPORT INFORMATION

TRANSPORT: NOT CLASSIFIED AS HAZARDOUS UNDER TRANSPORT REGULATIONS.

15. REGULATORY INFORMATION

HAZARD INDICATION: NO SPECIFIC HAZARD

16. OTHER INFORMATION

IT MUST BE RECOGNIZED THAT THE PHYSICAL AND CHEMICAL PROPERTIES OF ANY
PRODUCT MAY NOT BE FULLY UNDERSTOOD AND THAT NEW, POSSIBLY HAZARDOUS
PRODUCTS MAY ARISE FROM REACTIONS BETWEEN CHEMICALS. THE INFORMATION GIVEN
IN THIS DATA SHEET IS BASED ON OUR PRESENT KNOWLEDGE AND SHALL NOT
CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT
ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP.

DATE OF LAST REVISION: 05.09.2004

KIDDE
A UTC FIRE & SECURITY COMPANY

MATERIAL SAFETY DATA SHEET

COMMERCIAL ABC DRY CHEMICAL (FIRE EXTINGUISHING AGENT)

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PRODUCT NAME: COMMERCIAL ABC DRY CHEMICAL (FIRE EXTINGUISHING AGENT)

OTHER TRADE NAMES:
MULTI-PURPOSE, AMMONIUM PHOSPHATE, MONOAMMONIUM PHOSPHATE

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MEGAN, NC 27302
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PHONE NUMBER:
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REVISION DATE: MARCH 4, 2010

MSDS DATE: JANUARY 15, 2007

SAFETY DATA SHEET ACCORDING TO EC DIRECTIVE 2001/59/EC AND OSHA'S HAZCOM STANDARD (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

EU MAIN HAZARDS: NON HAZARDOUS POWDER

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EYE CONTACT
INHALATION
SKIN CONTACT

CARCINOGENIC STATUS: SEE SECTION 11 - TOXICITY

TARGET ORGANS:

RESPIRATORY SYSTEM
SKIN
EYE

HEALTH EFFECTS - EYES:

CONTACT FOR SHORT PERIODS OF TIME MAY CAUSE IRRITATION.

HEALTH EFFECTS - SKIN: CONTACT MAY CAUSE MILD IRRITATION.

HEALTH EFFECTS - INGESTION:
INGESTION IS NOT AN EXPECTED ROUTE OF EXPOSURE.

HEALTH EFFECTS - INHALATION:
MAY IRRITATE THE RESPIRATORY TRACT. MAY CAUSE TRANSIENT COUGH AND SHORTNESS OF BREATH.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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| CLAY | 8031-18-3 | <2% | NONE | NONE |
| AMORPHOUS SILICA | 7631-86-9 EC#2315454 | <2% | NONE | NONE |
| DYE | NA | <0.1% | NONE | NONE |

4. FIRST AID MEASURES

EYES:
IMMEDIATELY FLOOD THE EYE WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, HOLDING THE EYE OPEN. OBTAIN MEDICAL ATTENTION IF SORENESS OR REDNESS PERSISTS.

SKIN:
WASH AFFECTED AREA WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION:
DILUTE BY DRINKING LARGE QUANTITIES OF WATER AND OBTAIN MEDICAL ATTENTION.

INHALATION:
MOVE VICTIM TO FRESH AIR. OBTAIN MEDICAL ATTENTION IMMEDIATELY FOR ANY BREATHING DIFFICULTY.

ADVICE TO PHYSICIANS: TREAT SYMPTOMATICALLY.

5. FIRE - FIGHTING MEASURES

EXTINGUISHING MEDIA:
THIS PREPARATION IS USED AS AN EXTINGUISHING AGENT AND THEREFORE IS NOT A PROBLEM WHEN TRYING TO CONTROL A BLAZE. USE EXTINGUISHING AGENT APPROPRIATE TO OTHER MATERIALS INVOLVED. KEEP PRESSURIZED EXTINGUISHERS AND SURROUNDINGS COOL WITH WATER SPRAY AS THEY MAY RUPTURE OR BURST IN THE HEAT OF A FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
PRESSURIZED CONTAINERS MAY EXPLODE IN HEAT OF FIRE.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTING:
WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS AS APPROPRIATE FOR SPECIFIC FIRE CONDITIONS.

6. ACCIDENTAL RELEASE MEASURES

SWEEP UP OR VACUUM. PREVENT SKIN AND EYE CONTACT. WEAR APPROPRIATE PROTECTIVE EQUIPMENT.

7. HANDLING AND STORAGE

PRESSURIZED EXTINGUISHERS SHOULD BE PROPERLY STORED AND SECURED TO PREVENT FALLING OR BEING KNOCKED OVER. DO NOT DRAG, SLIDE OR ROLL EXTINGUISHERS. DO NOT DROP EXTINGUISHERS OR PERMIT THEM TO STRIKE AGAINST EACH OTHER. NEVER APPLY FLAME OR LOCALIZED HEAT DIRECTLY TO ANY PART OF THE EXTINGUISHER OR PLASTIC CONTAINER. STORE PRESSURIZED EXTINGUISHERS AND PLASTIC CONTAINERS AWAY FROM HIGH HEAT SOURCES.

STORAGE AREA SHOULD BE:
COOL
DRY
WELL VENTILATED
UNDER COVER
OUT OF DIRECT SUNLIGHT

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS:
OCCUPATIONAL EXPOSURE LIMITS ARE LISTED BELOW, IF THEY EXIST.

MICA:
ACGIH TLV: 3 MG/M3 TWA, MEASURED AS RESPIRABLE FRACTION OF THE AEROSOL.
OSHA PEL: 20 MPPCF, <1% CRYSTALLINE SILICA

NUISANCE DUST LIMIT:

OSHA PEL:
50 MPPCF OR 15 MG/M3 TWA, TOTAL DUST
15 MPPCF OR 5 MG/M3 TWA, RESPIRABLE FRACTION

ENGINEERING CONTROL MEASURES:

USE WITH ADEQUATE VENTILATION. THERE SHOULD BE LOCAL PROCEDURES FOR THE SELECTION, TRAINING, INSPECTION AND MAINTENANCE OF THIS EQUIPMENT. WHEN USED IN LARGE VOLUMES, USE LOCAL EXHAUST VENTILATION.

RESPIRATORY PROTECTION:

NOT NORMALLY REQUIRED. USE DUST MASK WHERE DUSTINESS IS PREVALENT, OR TLV IS EXCEEDED.

HAND PROTECTION:

NOT NORMALLY NEEDED WHEN USED AS A PORTABLE FIRE EXTINGUISHER. USE GLOVES IF IRRITATION OCCURS.

EYE PROTECTION: CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

BODY PROTECTION: NORMAL WORK WEAR.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: POWDER

COLOR: PALE YELLOW

ODOR: ODORLESS

SPECIFIC GRAVITY: NOT AVAILABLE

BOILING RANGE/POINT (DEG. C/F): NOT APPLICABLE

FLASH POINT (PMCC) (DEG. C/F): NOT FLAMMABLE

SOLUBILITY IN WATER: NOT APPLICABLE

VAPOR DENSITY (AIR = 1): HEAVIER THAN AIR.

VAPOR PRESSURE: NOT APPLICABLE

EVAPORATION RATE: NOT APPLICABLE

10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID:

HEAT
HIGH TEMPERATURES
EXPOSURE TO DIRECT SUNLIGHT

MATERIALS TO AVOID:
STRONG OXIDIZING AGENTS
STRONG ACIDS
SODIUM HYPOCHLORITE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF CARBON
AMMONIA
OXIDES OF PHOSPHORUS
NITROGEN OXIDES

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: LOW ORDER OF ACUTE TOXICITY.

CHRONIC TOXICITY/CARCINOGENICITY:

THIS PRODUCT IS NOT EXPECTED TO CAUSE LONG TERM ADVERSE HEALTH EFFECTS.

MICA AND CLAY MAY CONTAIN SMALL QUANTITIES OF QUARTZ (CRYSTALLINE SILICA) AS AN IMPURITY. PROLONGED EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA DUST AT CONCENTRATIONS EXCEEDING THE OCCUPATIONAL EXPOSURE LIMITS MAY INCREASE THE RISK OF DEVELOPING A DISABLING LUNG DISEASE KNOWN AS SILICOSIS. IARC FOUND LIMITED EVIDENCE FOR PULMONARY CARCINOGENICITY OF CRYSTALLINE SILICA IN HUMANS.

GENOTOXICITY: THIS PRODUCT IS NOT EXPECTED TO CAUSE ANY MUTAGENIC EFFECTS.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY:

THIS PRODUCT IS NOT EXPECTED TO CAUSE ADVERSE REPRODUCTIVE EFFECTS.

12. ECOLOGICAL INFORMATION

MOBILITY: NO RELEVANT STUDIES IDENTIFIED.

PERSISTENCE/DEGRADABILITY: NO RELEVANT STUDIES IDENTIFIED.

BIO-ACCUMULATION: NO RELEVANT STUDIES IDENTIFIED.

ECOTOXICITY: NO RELEVANT STUDIES IDENTIFIED.

13. DISPOSAL CONSIDERATIONS

DISPOSE OF CONTAINER IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND NATIONAL REGULATIONS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR TO THE CONTAINER. NO HARM TO THE ENVIRONMENT IS EXPECTED FROM THIS PREPARATION.

14. TRANSPORT INFORMATION

DOT CFR 172.101 DATA: NOT REGULATED

UN PROPER SHIPPING NAME: NOT REGULATED

UN CLASS: NONE
UN NUMBER: NONE
UN PACKAGING GROUP: NONE

15. REGULATORY INFORMATION

EU LABEL INFORMATION:
CLASSIFICATION AND LABELLING HAVE BEEN PERFORMED ACCORDING TO EU DIRECTIVES 67/548/EEC AND 99/45/EC INCLUDING AMENDMENTS (2001/60/EC AND 2006/8/EC)

EU HAZARD SYMBOL AND INDICATION OF DANGER:
THIS PREPARATION IS NOT CLASSIFIED AS DANGEROUS.

R PHRASES: NONE
S PHRASES: NONE.

US REGULATIONS (FEDERAL, STATE) AND INTERNATIONAL CHEMICAL REGISTRATION LAWS:

TSCA LISTING:
THIS PRODUCT CONTAINS INGREDIENTS THAT ARE LISTED ON OR EXEMPT FROM LISTING ON THE EPA TOXIC SUBSTANCE CONTROL ACT CHEMICAL SUBSTANCE INVENTORY.

EINECS LISTING:
ALL INGREDIENTS IN THIS PRODUCT HAVE NOT BEEN VERIFIED FOR LISTING ON THE EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS) OR THE EUROPEAN LIST OF NEW CHEMICAL SUBSTANCES (ELINCS).

DSL/NDSL (CANADIAN) LISTING:
ALL INGREDIENTS IN THIS PRODUCT ARE LISTED ON THE DOMESTIC SUBSTANCE LIST (DSL) OR THE NON-DOMESTIC SUBSTANCE LIST (NDSL) OR ARE EXEMPT FROM LISTING.

WHMIS CLASSIFICATION:
D2B

THIS PRODUCT WAS CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THESE REGULATIONS.

MA RIGHT TO KNOW LAW:
ALL COMPONENTS HAVE BEEN CHECKED FOR INCLUSION ON THE MASSACHUSETTS SUBSTANCE LIST (MSL).

THOSE COMPONENTS PRESENT AT OR ABOVE THE DE MINIMIS CONCENTRATION INCLUDE:
MICA (12001-26-2) 1-4%
AMORPHOUS SILICA (7631-86-9) <2%
AMMONIUM SULFATE (7783-20-2) 30-40%

PA RIGHT TO KNOW LAW:
THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS FOUND ON THE PENNSYLVANIA HAZARDOUS SUBSTANCE LIST:
MICA (12001-26-2) 1-4%
AMORPHOUS SILICA (7631-86-9) <2%
AMMONIUM SULFATE (7783-20-2) 30-40%

NJ RIGHT TO KNOW LAW:
THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS FOUND ON THE NJ RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST:
MICA (12001-26-2) 1-4%
AMORPHOUS SILICA (7631-86-9) <2%

CALIFORNIA PROPOSITION 65:
THIS PRODUCT DOES NOT CONTAIN MATERIALS WHICH THE STATE OF CALIFORNIA HAS FOUND TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SARA TITLE III SECT. 302 (EHS):
THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS SUBJECT TO SARA TITLE III SECTION 302.

SARA TITLE III SECT. 304:
THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS SUBJECT TO SARA TITLE III SECTION 304.

SARA TITLE III SECT. 311/312 CATEGORIZATION:
IMMEDIATE (ACUTE) HEALTH HAZARD

SARA TITLE III SECT. 313:
THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS THAT ARE LISTED IN SECTION 313 AT OR ABOVE DE MINIMIS CONCENTRATIONS.

16. OTHER INFORMATION

NFPA RATINGS:
NFPA CODE FOR HEALTH 1
NFPA CODE FOR FLAMMABILITY 0
NFPA CODE FOR REACTIVITY 0
NFPA CODE FOR SPECIAL HAZARDS NONE

HMIS RATINGS:
HMIS CODE FOR HEALTH 1
HMIS CODE FOR FLAMMABILITY 0
HMIS CODE FOR REACTIVITY 0
HMIS CODE FOR PERSONAL PROTECTION SEE SECTION 8

ABBREVIATIONS:
N/A: DENOTES NO APPLICABLE INFORMATION FOUND OR AVAILABLE
CAS#: CHEMICAL ABSTRACTS SERVICE NUMBER
ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
TLV: THRESHOLD LIMIT VALUE
PEL: PERMISSIBLE EXPOSURE LIMIT
STEL: SHORT TERM EXPOSURE LIMIT
NTP: NATIONAL TOXICOLOGY PROGRAM
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
R: RISK
S: SAFETY

PREPARED BY: ENVIRONET LLC.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE ACCURATE. HOWEVER, NO REPRESENTATION, WARRANTY, OR GUARANTEE IS MADE TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR ITS OWN PARTICULAR USE. KIDDE - RESIDENTIAL AND COMMERCIAL ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE RESULTING FROM USE,

HANDLING OR FROM CONTACT WITH THIS PRODUCT.

REVISION DATE: MARCH 4, 2010

MATERIAL SAFETY DATA SHEET

FORD TOX #: 135423

SECTION I -

MANUFACTURER'S NAME: METALTEC STEEL ABRASIVE COMPANY

ADDRESS: 41155 JOY ROAD

CITY, STATE, ZIP: CANTON, MI 48187

TELEPHONE / FAX #: (734) 459-7900 / (734) 459-7907

EMERGENCY: (734) 454-1840

PRODUCT NAMES: LOW CARBON CAST STEEL SHOT FINES AIRWASH SEPARATOR FINES

CHEMICAL FAMILY:

FERROUS
JANUARY 1, 2009

SIGNATURE:

SECTION II - HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS NUMBER | % WEIGHT | OSHA TWA | ACGIH TWA |
|---------------|------------|-----------|--------------------------------|------------|
| IRON | 1309-37-1 | >40 | 10 MG/M3 (AS NUISANCE DUST) | 5 MG/M3 |
| MANGANESE | 74-39-96-5 | 1.0-1.5 | 5 MG/M3 | 5 MG/M3 C* |
| CARBON | 7440-44-0 | 0.08-0.15 | NONE EST. | NONE EST. |
| SILICON | 7440-21-3 | 0.10-0.30 | 15 MG/M3 (AS NUISANCE DUST) | 10 MG/M3 |

C* = CEILING LIMIT, SHALL NOT BE EXCEEDED EVEN FOR A SHORT TIME.

SECTION III - PHYSICAL DATA

MELTING POINT: 1371 - 1482C

VAPOR PRESSURE: NOT APPLICABLE

EVAPORATION RATE: NOT APPLICABLE

VAPOR DENSITY: NOT APPLICABLE

BOILING POINT: 2850 - 3150C

% SOLID BY WEIGHT: 100%

SOLUBILITY IN WATER: NOT APPLICABLE

PH: NOT APPLICABLE

APPEARANCE AND ODOR:

STEEL SHOT IS NEAR SPHERICAL IN SHAPE AND LIGHT GRAY TO SILVER IN COLOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NOT APPLICABLE

AUTO IGNITION TEMPERATURE: (SOLID IRON EXPOSED TO OXYGEN) 930C

CAST STEEL SHOT WILL NOT BURN OR EXPLODE

THE SOLID FORM OF MATERIAL IS NOT COMBUSTIBLE. FIRE EXPLOSION HAZARDS ARE MODERATE WHEN MATERIAL IS IN THE FORM OF DUST AND EXPOSED TO HEAT OF FLAMES, CHEMICAL REACTION, OR CONTACT WITH POWERFUL OXIDIZERS.

FIRE EXTINGUISHING METHOD: USE DRY CHEMICALS OR SAND TO EXCLUDE AIR.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT: SEE SECTION II

CARCINOGENICITY: NONE OF THE INGREDIENTS LISTED BY N.T.P., IARC OR OSHA

PERMISSIBLE EXPOSURE LIMIT: SEE SECTION II

PRIMARY ROUTES OF ENTRY:

INHALATION OF DUST OR FUMES CREATED DURING USE, OR DUST PARTICULATE IN EYES.

OVEREXPOSURE TO DUST CONTAINING THE COMPONENT ELEMENTS OF CAST STEEL SHOT MAY CAUSE SKIN, NOSE, MOUTH AND EYE IRRITATION.

EMERGENCY AND FIRST AID PROCEDURE:

EYE CONTACT:

FLUSH WITH RUNNING WATER TO REMOVE PARTICLES. SEEK ADDITIONAL MEDICAL ATTENTION IF NECESSARY.

SKIN CONTACT: BRUSH OFF EXCESS DUST, WASH AREA WITH SOAP AND WATER.

INHALATION: REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION

INGESTION:

SEEK MEDICAL HELP IF LARGE QUANTITIES OF MATERIAL HAVE BEEN INGESTED.

SECTION VI - REACTION DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

CAST STEEL SHOT WILL WEAR AWAY AT A CONTROLLED RATE THROUGH NORMAL USE.

SECTION VII - SPILL AND LEAK PROCEDURE

CAST STEEL SHOT SPILLED OR LEAKED ONTO FLOORS CAN CAUSE HAZARDOUS WALKING CONDITIONS. SPILLS OR LEAKS SHOULD BE VACUMED OR SWEEPED FROM WORKING AREAS. WHEN CLEANING UP LARGE QUANTITIES OF DUST, A NIOSH APPROVED RESPIRATOR SHOULD BE WORN. SPILLED CAST STEEL SHOT CAN BE REUSED OR DISPOSED OF AS A NON-HAZARDOUS WASTE. COLLECTED DUST FROM BLAST CLEANING OR SHOT PEENING OPERATIONS ALWAYS CONTAIN CONTAMINANTS FROM THE SURFACE OF THE PARTS BEING PROCESSED, AND THEREFORE THE DUST MAY BE CLASSIFIED AS A HAZARDOUS WASTE AND, AS SUCH, MUST BE DISPOSED OF ACCORDING TO APPROPRIATE LOCAL, STATE OR FEDERAL REGULATIONS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION:
GENERAL AND LOCAL EXHAUST VENTILATION SHOULD BE PROVIDED TO KEEP THE DUST LEVELS BELOW TLV'S SHOWN IN SECTION II.

RESPIRATORY PROTECTION:
IF DUST CREATED BY USE EXCEEDS THE TLV'S INDICATED IN SECTION II, A NIOSH APPROVED RESPIRATOR SHOULD BE WORN.

EYE PROTECTION:
APPROVED SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES. SAFETY EYEWASH STATIONS SHOULD BE PROVIDED IN CLOSE PROXIMITY TO THE WORK AREA.

OTHER PROTECTION EQUIPMENT: NONE REQUIRED.

SECTION IX - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:
STORE MATERIAL AWAY FROM INCOMPATIBLE MATERIALS AND KEEP DUST AWAY FROM SOURCES OF IGNITION. KEEP DRY TO REDUCE RUSTING. OBSERVE MAXIMUM FLOOR LOADING LIMITATIONS.

OTHER PRECAUTIONS:
THE COMPANY HAS NO CONTROL OVER THIS PRODUCT OR ITS USE AFTER IT LEAVES OUR FACILITY. THE COMPANY ASSUMES NO LIABILITY FOR LOSS OR DAMAGE FROM THE PROPER OR IMPROPER USE OF THIS PRODUCT. THE INFORMATION PRESENTED HERE HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE RELIABLE AND ACCURATE TO THE BEST OF OUR KNOWLEDGE AND BELIEF, BUT IS NOT GUARANTEED TO BE SO.

MTF-227-14

REV. DATE: 01/01/2005

ITEM: 4XP89 - Fire Extinguisher Dry Chemical ABC 4A

MSDS: S0242

ORDER: 0119341796

LP NUMBER: U854083236

MATERIAL SAFETY DATA SHEET (MSDS)

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

***** MATERIAL SAFETY DATA SHEET - S0242 *****

Associated Grainger Items
4XP89
B
BADGER
A UTC FIRE & SECURITY COMPANY

HOJA DE DATOS DE SEGURIDAD DE MATERIALES (MSDS)

COMPUESTO QUÍMICO SECO ABC (MULTIPROPÓSITO) DE BADGER (AGENTE EXTINTOR DE INCENDIOS)

1. IDENTIFICACIÓN DE LAS SUBSTANCIAS/PREPARADOS Y DE LA EMPRESA/COMPAD=A

NOMBRE DEL PRODUCTO:
COMPUESTO QUÍMICO SECO ABC (MULTIPROPÓSITO) DE BADGER (AGENTE EXTINTOR DE INCENDIOS)

OTROS NOMBRES COMERCIALES:
90% MAP, FOSFATO DE AMONIO, FOSFATO MONOAMÉNICO, PREMIUM ABC

DESCRIPCIÓN DEL PRODUCTO: AGENTE EXTINTOR DE INCENDIOS

FABRICANTE O PROVEEDOR: BADGER FIRE PROTECTION

DIRECCIÓN:
944 GLENWOOD STATION LANE
SUITE 303
CHARLOTTESVILLE, VA 22901
ESTADOS UNIDOS

TELÉFONO: (434)-964-3200

NÚMERO CHEMTREC (SÍLO PARA EMERGENCIAS):
(800) 424-9300 (DENTRO DE ESTADOS UNIDOS)
(703) 527-3887 (INTERNACIONAL)

FECHA DE REVISIÓN: 9 DE FEBRERO DE 2009

FECHA DE LA MSDS: 15 DE ENERO DE 2007

HOJA DE DATOS DE SEGURIDAD DE MATERIALES EN CONCORDANCIA CON LA DIRECTIVA 2001/59/EC DE LA CE, Y ADÉMÁS CON EL ESTÁNDAR DE COMUNICACIÓN DE RIESGOS DE LA ADMINISTRACIÓN DE HIGIENE Y SEGURIDAD EN EL TRABAJO (OSHA) (29 CFR 1910.1200)

2. IDENTIFICACIÓN DE RIESGOS

UNIÓN EUROPEA: RIESGOS PRINCIPALES

POLVO NO PELIGROSO

VÍAS DE ENTRADA: CONTACTO CON LOS OJOS, INHALACIÓN, CONTACTO CON LA PIEL

CONDICIÓN DE CÁNCER=GENO: VEA LA SECCIÓN 11, TOXICIDAD

ÓRGANOS AFECTADOS: SISTEMA RESPIRATORIO, PIEL, OJOS

EFFECTOS SOBRE LA SALUD - OJOS:
EL CONTACTO POR BREVES PERÍODOS DE TIEMPO PUEDE CAUSAR IRRITACIÓN.

EFFECTOS SOBRE LA SALUD - PIEL:
EL CONTACTO PUEDE CAUSAR IRRITACIONES MODERADAS.

EFFECTOS SOBRE LA SALUD - INGESTIÓN:
LA INGESTIÓN NO ES UNA VÍA ESPERADA DE CONTACTO.

EFFECTOS SOBRE LA SALUD - INHALACIÓN:
PODRÁ CAUSAR IRRITACIONES EN EL TRACTO RESPIRATORIO. PODRÁ CAUSAR TOS TRANSITORIA, SENSACIÓN DE AHOGO Y RESPIRACIÓN AGITADA.

3. COMPOSICIÓN E INFORMACIÓN DE LOS INGREDIENTES

Table with 5 columns: NOMBRE DE LA SUSTANCIA QUÍMICA, NO. DE CAS/CÓDIGOS, CONCENTRACIÓN, FRASES R (DE RIESGO), CLASIFICACIÓN DE LA UE. Rows include Fosfato Monoaménico, Mica, Arcilla, S-Lice Amorfa, and Tinte.

4. MEDIDAS DE PRIMEROS AUXILIOS

OJOS:
ENJUAGUE LOS OJOS DE INMEDIATO CON AGUA EN ABUNDANCIA, DURANTE AL MENOS 15 MINUTOS, MANTENIENDO EL O LOS OJOS ABIERTOS. BUSQUE ATENCIÓN MÉDICA SI PERSISTEN LA IRRITACIÓN Y EL ENROJECIMIENTO.

PIEL:
LAVE LA ZONA AFECTADA CON AGUA Y JABÓN. SI PERSISTE LA IRRITACIÓN, BUSQUE ATENCIÓN MÉDICA.

INGESTIÓN:
BEBA GRANDES CANTIDADES DE AGUA PARA DILUIR EL COMPUESTO INGERIDO Y BUSQUE

ATENCIÓN MÉDICA.

INHALACIÓN:
LLEVE A LA VENTILACIÓN AL AIRE LIBRE. SI SE PRESENTAN DIFICULTADES PARA RESPIRAR, BUSQUE ATENCIÓN MÉDICA DE INMEDIATO.

INDICACIÓN PARA LOS MÉDICOS: TRATAR SEGÚN LA SINTOMATOLOGÍA.

5. MEDIDAS PARA CASOS DE INCENDIO

MEDIO EXTINTOR:
ESTE PREPARADO SE UTILIZA COMO AGENTE DE EXTINCIÓN DE INCENDIOS, Y POR LO TANTO NO ES FUENTE DE PROBLEMAS AL COMBATIR INCENDIOS. UTILICE LOS AGENTES EXTINTORES APROPIADOS PARA LOS DIFERENTES MATERIALES INVOLUCRADOS EN EL INCENDIO. MANTENGA BAJA LA TEMPERATURA DE LOS EXTINGUIDORES A PRESIÓN Y DE SUS ALREDEDORES CON CHORROS DE AGUA, YA QUE LOS ENVASES PODRÁN FRAGMENTARSE O ESTALLAR POR EL CALOR DE LAS LLAMAS.

RIESGOS POCO COMUNES DE INCENDIO Y EXPLOSIÓN:
LOS CONTENEDORES PRESURIZADOS PODRÁN EXPLOTAR DEBIDO AL CALOR DEL INCENDIO.

EQUIPO DE PROTECCIÓN PARA COMBATIR EL FUEGO:
LLEVE ROPA PROTECTORA COMPLETA Y APARATOS RESPIRADORES INDEPENDIENTES, SEGÚN SEA ADECUADO PARA LAS CONDICIONES ESPECÍFICAS DEL INCENDIO.

6. MEDIDAS EN CASO DE FUGAS ACCIDENTALES

BARRA O ASPIRE. EVITE EL CONTACTO CON LA PIEL Y LOS OJOS. LLEVE ROPAS PROTECTORAS APROPIADAS.

7. MANIPULACIÓN Y ALMACENAMIENTO

LOS EXTINGUIDORES A PRESIÓN SE DEBEN ALMACENAR CORRECTAMENTE Y DEBEN ESTAR BIEN SUJETOS A FIN DE PREVENIR QUE PUEDAN TUMBARLOS O SE CAIGAN. NUNCA ARRASTRE, DESLICE NI HAGA RODAR LOS EXTINGUIDORES. EVITE QUE LOS EXTINGUIDORES SE CAIGAN Y QUE GOLPEEN UNO CONTRA OTRO. NUNCA EXPONGA PARTE ALGUNA DE LOS EXTINGUIDORES O DE LOS RECIPIENTES PLÁSTICOS A LLAMAS DIRECTAS NI A ALTAS TEMPERATURAS LOCALIZADAS. ALMACENE LOS EXTINGUIDORES A PRESIÓN Y LOS RECIPIENTES PLÁSTICOS LEJOS DE FUENTES DE ALTA TEMPERATURA. EL ÁREA DE ALMACENAMIENTO DEBE SER: FRESCA, SECA, BIEN VENTILADA, BAJO TECHO Y ALEJADA DE LA LUZ DIRECTA DEL SOL.

8. CONTROL DE EXPOSICIÓN Y PROTECCIÓN PERSONAL

ESTÁNDARES DE EXPOSICIÓN OCUPACIONAL:
SI EXISTEN, LOS LÍMITES DE EXPOSICIÓN OCUPACIONAL SE ENUMERAN A CONTINUACIÓN.

MICA:

ACGIH TLV: 3 MG/M3 TWA, MEDIDO COMO LA FRACCIÓN RESPIRABLE DEL AEROSOL.

OSHA PEL: 20 MPPCF, <1% DE S-LICE CRISTALINA

LÍMITES DE POLVO MOLESTO:

OSHA PEL:
50 MPPCF O BIEN 15 MG/M3 TWA, POLVO TOTAL
15 MPPCF O BIEN 5 MG/M3 TWA, FRACCIÓN RESPIRABLE

MEDIDAS DE CONTROL DE INGENIERÍA:
EL MATERIAL SE DEBE UTILIZAR SELO CON LA VENTILACIÓN ADECUADA, DEBEN EXISTIR PROCEDIMIENTOS LOCALES EN VIGOR RESPECTO A LA SELECCIÓN, CAPACITACIÓN, INSPECCIÓN Y MANTENIMIENTO DE ESTOS EQUIPOS. SI SE UTILIZA EN GRANDES VOLÚMENES, SE DEBE USAR VENTILACIÓN LOCAL DE EXTRACCIÓN.

PROTECCIÓN RESPIRATORIA:
NORMALMENTE NO SE REQUIERE. UTILICE MÁSCARAS DE PROTECCIÓN CONTRA EL POLVO SI LA ATMÓSFERA GENERALMENTE ES POLVORIENTA O SI SE SUPERA EL VALOR TLV.

PROTECCIÓN DE LAS MANOS:
NORMALMENTE NO SE NECESITA AL UTILIZARSE COMO EXTINGUIDOR PORTÁTIL DE INCENDIOS. USE GANTES SI SE PRESENTAN IRRITACIONES.

PROTECCIÓN DE LOS OJOS:
GAFAS DE SEGURIDAD CON PROTECTORES LATERALES PARA EL TRABAJO CON SUSTANCIAS QUÍMICAS.

PROTECCIÓN CORPORAL: ROPA DE TRABAJO NORMAL.

9. PROPIEDADES FÍSICAS Y QUÍMICAS

ESTADO FÍSICO: POLVO

COLOR: AMARILLO CLARO

OLOR: INODORO

GRAVEDAD ESPECÍFICA: NO ESTÁ DISPONIBLE

PUNTO O RANGO DE EBULLICIÓN (DEG. C/F): NO CORRESPONDE

PUNTO DE INFLAMACIÓN (PMCC) (DEG. C/F): NO INFLAMABLE

SOLUBILIDAD EN AGUA: NO CORRESPONDE

DENSIDAD DE VAPOR (AIRE = 1): MÁS PESADO QUE EL AIRE.

PRESIÓN DE VAPOR: NO CORRESPONDE

TASA DE EVAPORACIÓN: NO CORRESPONDE

10. ESTABILIDAD Y REACTIVIDAD

ESTABILIDAD: ESTABLE BAJO CONDICIONES NORMALES DE ALMACENAMIENTO.

CONDICIONES A EVITAR:
CALOR, ALTAS TEMPERATURAS, EXPOSICIÓN A LA LUZ DIRECTA DEL SOL

MATERIALES QUE DEBEN EVITARSE:
AGENTES OXIDANTES FUERTES, ÁCIDOS FUERTES, HIPOCLORITO DE SODIO

POLIMERIZACIÓN PELIGROSA: NO SE PRODUCE.

PRODUCTOS PELIGROSOS DE LA DESCOMPOSICIÓN:
ÓXIDOS DE CARBONO, AMONÍACO, ÓXIDOS DE FOSFORO, ÓXIDOS DE NITRÓGENO

11. INFORMACIÓN TOXICOLÓGICA

TOXICIDAD AGUDA: ORDEN INFERIOR DE TOXICIDAD AGUDA.

TOXICIDAD CRÓNICA Y CARCINOGENA:
NO SE ESPERA QUE ESTE PRODUCTO CAUSE EFECTOS NEGATIVOS A LA SALUD A LARGO PLAZO.

LA MICA Y LA ARCILLA PODRÁN CONTENER PEQUEÑAS CANTIDADES DE CUARZO (S-LICE CRISTALINA) EN FORMA DE IMPUREZAS. EL CONTACTO PROLONGADO CON POLVOS RESPIRABLES DE S-LICE CRISTALINA EN CONCENTRACIONES QUE SUPEREN LOS LÍMITES DE EXPOSICIÓN OCUPACIONAL PODRÁ AUMENTAR EL RIESGO DE DESARROLLAR UNA ENFERMEDAD PULMONAR INCAPACITANTE CONOCIDA COMO SILICOSIS. IARC HALLÉ EVIDENCIAS LIMITADAS DE CARCINOGENEIDAD PULMONAR DEBIDA A LA S-LICE CRISTALINA, EN HUMANOS.

GENOTOXICIDAD: NO SE ESPERA QUE ESTE PRODUCTO TENGA EFECTOS MUTAGÉNICOS.

TOXICIDAD REPRODUCTIVA O DEL DESARROLLO:
NO SE ESPERA QUE ESTE PRODUCTO TENGA EFECTOS ADVERSOS RELACIONADOS CON LA REPRODUCCIÓN.

12. INFORMACIÓN ECOLÓGICA

MOVILIDAD: NO SE HAN IDENTIFICADO ESTUDIOS PERTINENTES.

PERSISTENCIA O DEGRADABILIDAD: NO SE HAN IDENTIFICADO ESTUDIOS PERTINENTES.

BIOACUMULACIÓN: NO SE HAN IDENTIFICADO ESTUDIOS PERTINENTES.

ECOTOXICIDAD: NO SE HAN IDENTIFICADO ESTUDIOS PERTINENTES.

13. CONSIDERACIONES PARA SU ELIMINACIÓN

DESECHE LOS RECIPIENTES DE ACUERDO CON LA NORMATIVA LOCAL Y NACIONAL APLICABLE. NO CORTE, PERFORE NI SUELDE CERCA DEL CONTENEDOR. NO SE ESPERA QUE ESTE PREPARADO TENGA EFECTOS DAÑINOS EN EL MEDIO AMBIENTE.

14. INFORMACIÓN DE TRANSPORTE

INFORMACIÓN DEL DOT CFR 172.101: NO REGULADO

NOMBRE APROPIADO PARA EMBARQUES DE UN: NO REGULADO

CLASE DE UN: NINGUNO

NÚMERO DE UN: NINGUNO

GRUPO DE EMPAQUE DE UN: NINGUNO

15. INFORMACIÓN NORMATIVA

INFORMACIÓN DE LA ETIQUETA PARA LA UNIÓN EUROPEA:
LA CLASIFICACIÓN Y ETIQUETADO SE REALIZARON DE ACUERDO A LAS DIRECTIVAS 67/548/EEC Y 99/45/EC DE LA UNIÓN EUROPEA, INCLUYENDO LAS ENMIENDAS (2001/60/EC Y 2006/8/EC).

SÍMBOLO DE RIESGO E INDICACIÓN DE PELIGRO DE LA UE:
ESTE PREPARADO NO ESTÁ CLASIFICADO COMO PELIGROSO.

FRASES R (DE RIESGO): NINGUNO

FRASES S (DE SEGURIDAD): NINGUNO.

CONFORME A LA NORMATIVA DE EEUU (FEDERALES Y ESTATALES) Y LAS LEYES DE INSCRIPCIÓN QUÍMICA INTERNACIONAL:

LISTADO CONFORME A LA LEY DE CONTROL DE SUSTANCIAS TÓXICAS (TSCA):
ESTE PRODUCTO CONTIENE INGREDIENTE(S) QUE ESTÁN LISTADOS EN O EXCLUIDOS DE LOS LISTADOS DE INVENTARIO DE SUSTANCIAS TÓXICAS (TSCA) DE LA EPA.

LISTADO EN EL INVENTARIO EUROPEO DE SUSTANCIAS QUÍMICAS COMERCIALES EXISTENTES (EINECS, POR SUS SIGLAS EN INGLÉS):
NO SE HA COMPROBADO QUE LOS INGREDIENTES DE ESTE PRODUCTO ESTÉN EN LA LISTA DEL INVENTARIO EUROPEO DE SUSTANCIAS QUÍMICAS COMERCIALES EXISTENTES (EINECS) NI EN LA LISTA EUROPEA DE NUEVAS SUSTANCIAS QUÍMICAS (ELINCS, POR SUS SIGLAS EN INGLÉS).

INCLUIDO EN LA LISTA DE SUSTANCIAS DOMÉSTICAS (DSL)/ LISTA DE SUSTANCIAS NO-DOMÉSTICAS (NDSL) (CANADIENSE):
TODOS LOS INGREDIENTES PRESENTES EN ESTE PRODUCTO APARECEN EN LA DSL O EN LA NDSL O ESTÁN EXENTOS DE APARECER EN LAS MENCIONADAS LISTAS.

CLASIFICACIÓN DEL SISTEMA DE INFORMACIÓN DE MATERIALES PELIGROSOS EN EL LUGAR DE TRABAJO (WHMIS): D2B

ESTE PRODUCTO SE CLASIFICÓ DE ACUERDO CON LOS CRITERIOS DE RIESGO DE LA NORMATIVA PARA PRODUCTOS CONTROLADOS CANADIENSE Y LA MSDS CONTIENE TODA LA INFORMACIÓN QUE EXIGE TAL NORMATIVA.

LEY DEL DERECHO A ESTAR INFORMADO DEL ESTADO DE MASSACHUSETTS (MA):
SE HA REVISADO LA INCLUSIÓN DE TODOS LOS COMPONENTES EN LA LISTA DE SUSTANCIAS DE MASSACHUSETTS (MSL). LOS COMPONENTES PRESENTES A LA CONCENTRACIÓN MÍNIMA O POR ENCIMA DE ELLA INCLUYEN:
MICA (12001-26-2) 1-4%, S-LICE AMORFA (7631-86-9) <2%

LEY DEL DERECHO A ESTAR INFORMADO DEL ESTADO DE PENNSILVANIA (PA):
ESTE PRODUCTO CONTIENE LAS SIGUIENTES SUSTANCIAS QUÍMICAS QUE SE ENCUENTRAN EN LA LISTA DE SUSTANCIAS PELIGROSAS DEL ESTADO DE PENNSILVANIA:
MICA (12001-26-2) 1-4%, S-LICE AMORFA (7631-86-9) <2%

LEY DEL DERECHO A ESTAR INFORMADO DEL ESTADO DE NUEVA JERSEY (NJ):

ESTE PRODUCTO CONTIENE LAS SIGUIENTES SUSTANCIAS QUÍMICAS QUE SE ENCUENTRAN EN LA LISTA DE SUSTANCIAS PELIGROSAS DE LA LEY DE DERECHO A SABER DEL ESTADO DE NUEVA JERSEY:
MICA (12001-26-2) 1-4% - S-LICE AMORFA (7631-86-9) <2%

PROPOSICIÓN 65 DE CALIFORNIA (EN INGLÉS, "PROPOSITION 65" O "THE SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986" (LEY PARA EL CUMPLIMIENTO DE LAS NORMATIVAS DE SEGURIDAD SOBRE SUSTANCIAS TÓXICAS Y AGUA POTABLE)): ESTE PRODUCTO NO CONTIENE NINGÚN MATERIAL QUE EL ESTADO DE CALIFORNIA HAYA DETERMINADO COMO CAUSANTES DE CÁNCER, DEFECTOS CONGÉNITOS Y OTRAS MALFORMACIONES HEREDITARIAS.

SARA T-TULO III SECC. 302 (DEPARTAMENTO DE SALUD Y SANIDAD AMBIENTAL):
ESTE PRODUCTO NO CONTIENE NINGUNA SUSTANCIA QUÍMICA SUJETA A LA SARA T-TULO III SECC. 302.

SARA T-TULO III SECC. 304:
ESTE PRODUCTO NO CONTIENE NINGUNA SUSTANCIA QUÍMICA SUJETA A LA SARA T-TULO III SECC. 304.

SARA T-TULO III SECC. 311/312. CATEGORIZACIÓN:
RIESGO INMEDIATO PARA LA SALUD (AGUDO)

SARA T-TULO III SECC. 313:
ESTE PRODUCTO NO CONTIENE NINGUNA SUSTANCIA QUÍMICA LISTADA EN LA SECCIÓN 313, NI EN LAS CONCENTRACIONES MÍNIMAS NI POR ENCIMA DE ELLAS.

16. OTROS DATOS

CLASIFICACIÓN NFPA:
CÓDIGO NFPA DE SALUD 1
CÓDIGO NFPA DE INFLAMABILIDAD 0
CÓDIGO NFPA DE REACTIVIDAD 0
CÓDIGO NFPA DE RIESGOS ESPECIALES NINGUNO

CLASIFICACIÓN HMIS:
CÓDIGO HMIS DE SALUD 1
CÓDIGO HMIS DE INFLAMABILIDAD 0
CÓDIGO HMIS DE REACTIVIDAD 0
CÓDIGO HMIS DE PROTECCIÓN PERSONAL VEA LA SECCIÓN 8

ABREVIATURAS:

N/A:
INDICA QUE NO SE ENCONTRÓ O NO ESTÁ DISPONIBLE LA INFORMACIÓN APLICABLE

NO. DE CAS: NÚMERO DE SERVICIO DE QUÍMICOS ABSTRACTOS

ACGIH:
ASOCIACIÓN ESTADOUNIDENSE DE ESPECIALISTAS GUBERNAMENTALES EN HIGIENE INDUSTRIAL

OSHA: ADMINISTRACIÓN DE HIGIENE Y SEGURIDAD EN EL TRABAJO

TLV: VALOR LÍMITE DE UMBRAL

PEL: LÍMITES DE EXPOSICIÓN PERMISIBLES

STEL: LÍMITES DE EXPOSICIÓN A CORTO PLAZO

NTP: PROGRAMA NACIONAL DE TOXICOLOGÍA

IARC: AGENCIA INTERNACIONAL PARA LA INVESTIGACIÓN DEL CÁNCER

R: RIESGO

S: SEGURIDAD

PREPARADO POR: ENVIRONET, LLC.

LA INFORMACIÓN QUE CONTIENE LA PRESENTE ESTÁ FUNDAMENTADA EN DATOS QUE CREEMOS SON EXACTOS. SIN EMBARGO, LOS MISMOS NO SE ACOMPAÑAN DE NINGUNA GARANTÍA O GARANTÍAS QUE CERTIFIQUEN SU EXACTITUD, CONFIABILIDAD Y COMPLETITUD. ES RESPONSABILIDAD DEL USUARIO DETERMINAR LA IDONEIDAD E INTEGRIDAD DE DICHA INFORMACIÓN PARA EL USO PARTICULAR QUE SE LE VA A DAR. BADGER FIRE PROTECTION NO ASUME NINGUNA RESPONSABILIDAD POR LAS LESIONES PERSONALES O DAÑOS A LA PROPIEDAD QUE RESULTEN DEL USO, MANEJO O CONTACTO CON ESTE PRODUCTO.