. . . . MSDS: A7891

ITEM: 2W198 - Refrigerant 30 Lb

ORDER: 0053721948

LP NUMBER: U833058900

MATERIAL SAFETY DATA SHEET (MSDS)

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

Associated Grainger Items 9M232, 2W199, 2W198

FORANE (R) 22

MATERIAL SAFETY DATA SHEET

ARKEMA INC.

- 1 PRODUCT AND COMPANY IDENTIFICATION

2000 MARKET STREET PHILADELPHIA, PA 19103

EMERGENCY PHONE NUMBERS: CHEMTREC: (800) 424-9300 (24HRS) OR (703) 527-3887

ROCKY MOUNTAIN POISON CONTROL CENTER: (866) 767-5089 (24HRS)

INFORMATION TELEPHONE NUMBERS

PHONE NUMBER AVAILABLE HRS

PRODUCT INFORMATION

800-245-5858 8:00 AM - 5:30 PM (EASTERN)

PRODUCT NAME: FORANE(R) 22

PRODUCT SYNONYM(S): R-22, HCFC-22

CHEMICAL FAMILY: HYDROCHLOROFLUOROCARBON

CHEMICAL FORMULA: CHC1F2

CHEMICAL NAME: CHLORODIFLUOROMETHANE

EPA REG NIM.

INCREDIENT NAME

PRODUCT USE: REFRIGERANT, FOAM BLOWING AGENT

- 2 COMPOSITION/INFORMATION ON INGREDIENTS -

CHLORODIFLUOROMETHANE (HCFC-22) 75-45-6

CAS REGISTRY NUMBER TYPICAL WT. % OSHA

100% Y THE SUBSTANCE(S) MARKED WITH A "Y" IN THE OSHA COLUMN, ARE IDENTIFIED AS HAZARDOUS CHEMICALS ACCORDING TO THE CRITERIA OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

THIS MATERIAL IS CLASSIFIED AS HAZARDOUS UNDER FEDERAL OSHA REGULATION.

THE COMPONENTS OF THIS PRODUCT ARE ALL ON THE TSCA INVENTORY LIST.

## - 3 HAZARDS IDENTIFICATION -

EMERGENCY OVERVIEW: COLORLESS LIQUIFIED GAS WITH FAINT ETHER ODOR.

WARNING!

LIQUID AND GAS UNDER PRESSURE, OVERHEATING AND OVERPRESSURIZING MAY CAUSE GAS RELEASE OR VIOLENT CYLINDER BURSTING. MAY DECOMPOSE ON CONTACT WITH FLAMES OR EXTREMELY HOT METAL SURFACES TO PRODUCE TOXIC AND CORROSIVE PRODUCTS. VAFOR REDUCES OXYGEN AVAILABLE FOR BREATHING AND IS HEAVIER THAN AIR. HARMFUL IF INHALED AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID CONTACT WITH EYES OR SKIN MAY CAUSE FROSTBITE.

POTENTIAL HEALTH EFFECTS:
INHALATION AND SKIN CONTACT ARE EXPECTED TO BE THE PRIMARY ROUTES OF
OCCUPATIONAL EXPOSURE TO THIS MATERIAL. AS WITH MOST LIQUIFIED GASES,
CONTACT WITH THE RAPIDLY VOLATILIZING LIQUID CAN CAUSE FROSTBITE TO ANY
TISSUE. HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES AND RESPIRATORY
TRACT AND MAY RESULT IN CEMTRAL NERVOUS SYSTEM (CNS) EFFECTS SUCH AS
HEADACHE, DIZZINESS, DROWSINESS AND, IN SEVERE EXPOSURE, LOSS OF
CONSCICUSINESS AND DEATH. THE DENSE VAPOR OF THIS MATERIAL MAY REDUCE THE
AVAILABLE OXYGEN FOR BREATHING, PROLONGED EXPOSURE TO AN OXYGEN-DEFICIENT
AITHOSPHERE MAY BE FATAL. INHALATION MAY CAUSE AN INCREASE IN THE SENSITIVITY
OF THE HEART TO ADRENALINE, WHICH COULD RESULT IN IRREGULAR OR RAPID
HEARTBEATS. MEDICAL CONDITIONS ACGRAVATED BY EXPOSURE TO THIS MATERIAL
INCLUDE HEART DISEASE OR COMPROMISED HEART FUNCTION. POTENTIAL HEALTH EFFECTS:

- 4 FIRST AID MEASURES -

IF IN EYES, IMMEDIATELY FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

IF ON SKIN, FLUSH EXPOSED SKIN WITH LUKEWARM WATER (NOT HOT), OR USE OTHER MEANS TO WARM SKIN SLOWLY. GET MEDICAL ATTENTION IF FROSTBITTEN BY LIQUID OR IF IRRITATION OCCURES.

IF SWALLOWED, NOT APPLICABLE - PRODUCT IS A GAS AT AMBIENT TEMPERATURES.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. DO NOT GIVE ADRENALINE, EPINEPHRINE OR SIMILAR DRUGS FOLLOWING EXPOSURE TO THIS PRODUCT

- 5 FIRE FIGHTING MEASURES -

FIRE AND EXPLOSIVE PROPERTIES:

AUTO-IGNITION TEMPERATURE: 632 C (1170 F)

FLASH POINT: NA - G FLASH POINT METHOD: GAS

FLAMMABLE LIMITS: UPPER: NONE LOWER: NONE

EXTINGUISHING MEDIA:

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

FIRE FIGHTING INSTRUCTIONS:
STOP THE FLOW OF GAS IF POSSIBLE. USE WATER SPRAY ON PERSON MAKING SHUT-OFF.
FIRE FIGHTERS AND OTHERS WHO MAY BE EXPOSED TO PRODUCTS OF COMBUSTION SHOULD
WEAR FULL FIRE FIGHTING TURN OUT GEAR (FULL BUNKER GEAR) AND SELF-CONTAINED
BREATHING APPRARIUS (PRESSURE DEWAND NICSH APPROVED OR BOUTVALENT). FIRE
FIGHTING EQUIPMENT SHOULD BE THOROUGHLY DECONTAMINATED AFTER USE.

FIRE AND EXPLOSION HAZARDS: FIRE AND EXPLOSION HAZARDS:
MAY DECOMPOSE ON CONTACT WITH FLAMES OR EXTREMELY HOT METAL SURFACES TO
PRODUCE TOXIC AND CORROSIVE PRODUCTS. LIQUID AND GAS UNDER PRESSURE,
OVERHEATING OR OVERPRESSURIZING MAY CAUSE GAS RELEASE AND/OR VIOLENT
CYLINDER BURSTING. CONTAINER MAY EXPLODE IF HEATED DUE TO RESULTING PRESSURE
RISE. SOME MIXTURES OF HCFCS AND/OR HFCS, AND AIR OR OXYGEN MAY BE
COMBUSTIBLE IF PRESSURIZED AND EXPOSED TO EXTREME HEAT OR FLAME.

- 6 ACCIDENTAL RELEASE MEASURES .

IN CASE OF SPILL OR LEAK:
USE HALOGEN LEAK DETECTOR OR OTHER SUITABLE MEANS TO LOCATE LEAKS OR CHECK
ATMOSPHERE, KEEP UPWIND, EVACUATE ENCLOSED SPACES AND DISPERSE GAS WITH
FLOOR-LEVEL FORCED-AIR VENTILATION, EXHAUST VAPORS CUITOCORS, DO NOT SMOKE OR
OPERATE INTERNAL COMBUSTION ENGINES, REMOVE FLAMES AND HEATING ELEMENTS.

- 7 HANDLING AND STORAGE -

HANDLING: AVOID BREATHING GAS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. KEEP CONTAINER CLOSED. USE ONLY WITH ADEQUATE VENTILATION. DO NOT ENTER CONFINED SPACES UNLESS ADEQUATELY VENTILATED.

DO NOT APPLY DIRECT FLAME TO CYLINDER, DO NOT STORE CYLINDER IN DIRECT SUN OR EXPOSE IT TO HEAT ABOVE 120 F. DO NOT DROP OR REFILL THIS CYLINDER, KEEP AWAY FROM HEAT, SPARKS AND FLAMES.

- 8 EXPOSURE CONTROLS/PERSONAL PROTECTION -

ENGINEERING CONTROLS:
INVESTIGATE ENGINEERING TECHNIQUES TO REDUCE EXPOSURES BELOW AIRBORNE
EXPOSURE LIMITS. PROVIDE VENTILATION IF NECESSARY TO CONTROL EXPOSURE LEVELS
BELOW AIRBORNE EXPOSURE LIMITS (SEE BELOW). IF PRACTICAL, USE LOCAL
MECHANICAL EMHALST VENTILATION AT SOURCES OF AIR CONTAMINATION SUCH AS OPEN

EYE/FACE PROTECTION: WHERE THERE IS POTENTIAL FOR EYE CONTACT, WEAR CHEMICAL GOOGLES AND HAVE EYE FLUSHING EQUIPMENT AVAILABLE.

SKIN PROTECTION:
WEAR APPROPRIATE CHEMICAL RESISTANT PROTECTIVE CLOTHING AND CHEMICAL
RESISTANT GLOVES TO PREVENT SKIN CONTACT. CONSULT GLOVE MANUFACTURER TO
DETERMINE APPROPRIATE TYPE GLOVE MATERIAL FOR GIVEN APPLICATION. RINSE
CONTAMINATED SKIN PROMPTLY. WASH CONTAMINATED CLOTHING AND CLEAN PROTECTIVE
EQUIPMENT BEFORE REUSE. WASH SKIN THOROUGHLY AFTER HANDLING.

RESPIRATORY PROTECTION:

RESPIRATORY PROTECTION:
AVOID REEATHING GAS, WHEN AIRBORNE EXPOSURE LIMITS ARE EXCEEDED (SEE BELOW),
USE NIOSH APPROVED RESPIRATORY PROTECTION EQUIPMENT APPROPRIATE TO THE
MATERIAL AND/OR ITS COMPONENTS (FULL FACEPIECE RECOMMENDED). CONSULT
RESPIRATOR MANUFACTURER TO DETERMINE APPROPRIATE TYPE EQUIPMENT FOR A GIVEN
APPLICATION. OBSERVE RESPIRATOR USE LIMITATIONS SPECIFIED BY NIOSH OR THE
MANUFACTURER. FOR EMERGENCY AND OTHER CONDITIONS WHERE EXPOSURE LIMIT MAY BE
SIGNIFICANTLY EXCEEDED, USE AN APPROVED FULL FACE POSITIVE-PRESSURE,
SELF-CONTAINED BREATHING APPARATUS OR POSITIVE-PRESSURE AIRLINE WITH
AUXILIARY SELF-CONTAINED AIR SUPPLY. RESPIRATORY PROTECTION PROGRAMS MUST
COMPLY WITH 29 CFR SUBSECTION 1910.134.

AIRBORNE EXPOSURE GUIDELINES FOR INGREDIENTS:

EXPOSURE LIMIT

VALUE

CHLORODIFLUOROMETHANE (HCFC-22) ACGIH TWA

1000 PPM 3540 MG/M3

ONLY THOSE COMPONENTS WITH EXPOSURE LIMITS ARE PRINTED IN THIS SECTION. SKIN CONTACT LIMITS DESIGNATED WITH A "Y" ABOVE HAVE SKIN CONTACT EFFECT. AIR SAMPLING ALONE IS INSUFFICIENT TO ACCURATELY QUANTITATE EXPOSURE. MEASURES TO PREVENT SIGNIFICANT CUTANDEOUS ABSORPTION MAY BE REQUIRED. ACGIH SENSITIZER DESIGNATOR WITH A VALUE OF "Y" ABOVE MEANS THAT EXPOSURE TO THIS MATERIAL MAY CAUSE ALLERGIC REACTIONS. WEEL-ATHA SENSITIZER DESIGNATOR WITH A VALUE OF "Y" ABOVE MEANS THAT EXPOSURE TO THIS MATERIAL MAY CAUSE ALLERGIC SKIN REACTIONS.

- 9 PHYSICAL AND CHEMICAL PROPERTIES -

APPEARANCE/ODOR: COLORLESS LIQUIFIED GAS WITH FAINT ETHER ODOR.

pH: NA

SPECIFIC GRAVITY: 1.19 @ 25 C

VAPOR PRESSURE: 136 PSIA @ 21.1 C (70 F)

VAPOR DENSITY (AIR = 1): 3.00

MELTING POINT: NE

FREEZING POINT: -160 C (-256 F)

BOILING POINT: -40.8 C (-41.4 F)
SOLUBILITY IN WATER: SLIGHT
MOLECULAR WEIGHT: 86.47
10 STABILITY AND REACTIVITY —
STABILITY: THIS MATERIAL IS CHEMICALLY STABLE UNDER SPECIFIED CONDITIONS OR STORAGE, SHIMMENT AND/OR USE. SEE HANDLING AND STORAGE SECTION OF THIS MSDS FOR SPECIFIED CONDITIONS.
INCOMPATIBILITY: AVOID CONTACT WITH STRONG ALKALI OR ALKALINE EARTH METALS, FINELY POWDERED METALS SUCH AS ALLMINUM, MAGNESIUM OR ZINC AND STRONG OXIDIZERS, SINCE THEY MAY REACT OR ACCELERATE DECOMPOSITION.
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION PRODUCTS COULD INCLUDE HALOGEN ACIDS (HCl AND HF), HALOGENS, CARBON MONOXIDE, CARBON DIOXIDE, AND CARBONYL HALIDES.
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TOXICOLOGICAL INFORMATION:
SINGLE EXPOSURE (ACUTE) STUDIES INDICATE:
INHALATION - PRACTICALLY NON-TOXIC TO RATS (2 HR-LC50 300,000 PPM)
EYE IRRITATION - SLIGHTLY IRRITATING TO RABBITS (5-30 SEC. EXPOSURE TO GAS SPRAY)
SKIN IRRITATION - MODERATELY IRRITATING TO RABBITS (LIQUEFIED GAS WITH PATCH APPLIED) SEVERAL ACCIDENTAL DEATHS HAVE BEEN ASSOCIATED WITH EXPOSURE TO THIS MATERIAL OR MIXTURES WITH OTHER FILOROCARRONS. DEATH WAS GENERALLY ATTRIBUTED TO OXYGEN DEFICIENCY. MICROSCOPIC EXAMINATION OF THE TISSUES OF SOME OF THE VICTINS SHOWED EFFECTS ON THE LUNGS AND FATTY DEPOSITS IN LIVER CELLS. AN INCREASE IN THE INCIDENCE OF HEART PALFITATIONS HAS BEEN CLAIMED BY INDIVIDUALS OCCUPATIONALLY EXPOSED. MONITORING OF WORKERS DUTING OCCUPATIONAL EXPOSURE SHOWED NO CONNECTION TO EXPOSURE AND CARDIAC ARRHYTHMIA OR NEUROLGGIC DISORDERS, OTHER EPIDEMIOLOGICAL STUDIES HAVE REPORTED SIMILAR RESULTS. REPEATED SKIN APPLICATION OF A 10 SECOND SPRAY CAUSED REDDENING AND SLIGHT SWELLING OF THE SKIN AND A DELAY IN HAIR GROWTH.
NO SKIN ALLERGY WAS OBSERVED IN GUINEA PIGS FOLLOWING REPEATED EXPOSURE. STUDIES WITH MICE, DOSG, RATS, RABBITS, CATS AND MONREYS HAVE SHOWN THAT INFALATION EXPOSURE CAN CAUSE CARDIAC ARRHYTHMIAS. INHALATION CAUSES AN INITIAL STIMULATION AND THEN DEPRESSION OF THE CEMTRAL NERVOUS SYSTEM (CNS). SYMPTOMS IN ANIMALS INCLUDE LOSS OF EQUILIBRIUM, TREMORS, CONVULSIONS AND NARCOSIS AND DEATH, USUALLY ATTRIBUTED TO ASPHYXIATION. AT LEVELS THAT CAUSED ANESTHESIA, DOSS EXHIBITED CONVULSIONS. ACUTE EXPOSURE BY INHALATION WAS FATAL TO RABBITS, ALSO CAUSING HEMORRHAGES AND EFFECTS OF THE LIVER, FOLLOWING REPEATED INHALATION EXPOSURE, NO EFFECTS WERE REPORTED IN GUINEA FOLLOWING REPEATED INHALATION EXPOSURE, NO EFFECTS WERE REPORTED IN GUINEA FOIS, DOSS AND CATS; MILD LIVER EFFECTS WERE REPORTED IN RABBITS; AND, EFFECTS ON THE LINGS, CNS, HEART, LIVER, KILDNEY, SPLEEN WERE REPORTED IN RATS, MICE AND RABBITS. AN INCREASE IN MALIGNAMY TUMORS OF THE SALIVARY GLANDS WAS REPORTED IN MALE RATS BUT NOT IN FEMALE RATS OR MICE OF EITHER SEX AFTER LONG-TERM INHALATION EXPOSURE. LONG-TERM ORAL DOSING PRODUCED NO MALE REPRODUCTIVE PERFORMANCE IN RATS AND MICE. EXE MALFORMATIONS WERE REPORTED IN THE OFFSERING OF RATS EXPOSED BY INHALATION DURING PROBUSED ON MALE REPRODUCTIVE PERFORMANCE IN RATS AND MICE. EXE MALFORMATIONS WERE REPORTED IN THE OFFSERING OF RATS EXPOSED BY INHALATION DURING PROBUSINGY. IN RABBITS, RATS AND HUMANS, A SMALL PORTION OF INHALED MATERIATIONS WERE REPORTED IN THE BRAIN, HEART, LINGS, LIVER, KIDNEYS AND FAT. IT WAS RAPIDLY ELIMINATIED FROM THE BODY IN THE INHALED ARR. NO SIGNIFICANT METABOLISM OCCURS IN HUMANS OR RATS. THE RESULTS OF THE TESTS FOR GENETIC CHANGES WERE MIXED.
12 ECOLOGICAL INFORMATION —
ECOTOXICOLOGICAL INFORMATION: THE TOXICITY THRESHOLD FOR FISH IS 180 MG/L (24-HRS) AND FOR BACTERIA UNDER ANABROBIC CONDITIONS IS >400 MG/L (24-HRS). NO EFFECTS WERE REPORTED ON THE GROWTH OF AEROBIC AND ANAEROBIC MICROORGANISMS OVER A 24 HOUR PERIOD, INCLUDING GRAM-POSITIVE AND GRAM-NEGATIVE SPECIES, FROM EXPOSURE TO A MEDIA THAT CONTAINED THIS MATERIAL AT 5 MG/ML.
CHEMICAL FATE INFORMATION: CHLORODIFLUOROMEIHANE: THIS MATERIAL IS NOT READILY BIODEGRADABLE (0% AFTER 28-DAYS) AND IS PRACTICALLY NOT BIOACCUMLABLE (LOG FOW 1.08). IN AIR, IT HAS A HALF-LIFE IN THE ATMOSPHERE OF 8.4 YEARS, AN COONE DEPLETION FOTENTIAL (ODP) OF 0.055, AND A HALOCARBON GLOBAL WARMING POTENTIAL (HGMP) OF 0.33. IT IS MODERATELY ADSORBED IN SOILS AND SEDIMENTS (LOG KOC 1.8).
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WASTE DISPOSAL: RECOVER, RECLAIM OR RECYCLE WHEN PRACTICAL. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. NOTE: CHEMICAL ADDITIONS TO, PROCESSING OF, OR OTHERWISE ALTERING THIS MATERIAL MAY MAKE THIS WASTE WANAGEMENT INFORMATION INCOMPLETE, INACCURATE, OR OTHERWISE INAPPROPRIATE. FURTHERMORE, STATE AND LOCAL WASTE DISPOSAL REQUIREMENTS MAY BE MORE RESTRICTIVE OR OTHERWISE DIFFERENT FROM FEDERAL LAWS AND REGULATIONS.
14 TRANSPORT INFORMATION
OOT NAME: CHLORODIFLUOROMETHANE
OOT TECHNICAL NAME:
OOT HAZARD CLASS: 2.2
IN NUMBER: UN 1018
DOT PACKING GROUP: PG: NA
RQ:

HAZARD CATEGORIES UNDER CRITERIA OF SARA TITLE III RULES (40 CFR PART 370):
IMMEDIATE (ACUTE) HEALTH Y
DELAYED (CHRONIC) HEALTH N

REACTIVE N SUDDEN RELEASE OF PRESSURE Y

THE COMPONENTS OF THIS PRODUCT ARE ALL ON THE TSCA INVENTORY LIST.

INGREDIENT RELATED REGULATORY INFORMATION:

SARA REPORTABLE QUANTITIES CERCLA RQ SARA TPQ

CHLORODIFLUOROMETHANE (HCFC-22) NE

SARA TITLE III, SECTION 313:
THIS PRODUCT DOES CONTAIN CHEMICAL(S) WHICH ARE DEFINED AS TOXIC CHEMICALS
UNDER AND SUBJECT TO THE REPORTING REQUIREMENTS OF, SECTION 313 OF TITLE III
OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART
372. SEE SECTION 2 CHLORODIFLUOROMETHANE (HCFC-22)

MASSACHUSETTS RIGHT TO KNOW:
THIS PRODUCT DOES CONTAIN THE FOLLOWING CHEMICALS(S), AS INDICATED BELOW,
CURRENTLY ON THE MASSACHUSETTS RIGHT TO KNOW SUBSTANCE LIST.
CHLORODIFLUOROMETHANE (HCFC-22)

NEW JERSEY RIGHT TO KNOW: THIS PRODUCT DOES CONTAIN THE FOLLOWING CHEMICAL(S), AS INDICATED BELOW, CURRENTLY ON THE NEW JERSEY RIGHT-TO-KNOW SUBSTANCES LIST. CHLORODIFLUOROMETHANE (HCFC-22)

PENNSYLVANIA ENVIRONMENTAL HAZARD: THIS PRODUCT DOES CONTAIN THE FOLLOWING CHEMICAL(S), AS INDICATED BELOW, CURRENTLY ON THE PENNSYLVANIA ENVIRONMENTAL HAZARD LIST. CHLORODIFLUOROMETHANE (HCFC-22)

PENNSYLVANIA RIGHT TO KNOW: THIS PRODUCT DOES CONTAIN THE FOLLOWING CHEMICAL(S), AS INDICATED BELOW, CURRENTLY ON THE PENNSYLVANIA HAZARDOUS SUBSTANCE LIST. CHLORODIFLUOROMETHANE (HCFC-22)

## - 16 OTHER INFORMATION

REVISION INFORMATION:

REVISION DATE: 11 OCT 2004

SUPERCEDES REVISION DATED: 18-FEB-2004

REVISION NUMBER: 9

REVISION SUMMARY: ATOFINA CHEMICALS, INC. HAS CHANGED ITS NAME TO ARKEMA INC.

KEY: NE = NOT ESTABLISHED NA = NOT APPLICABLE (R) = REGISTERED TRADEMARK

ARKEMA INC. BELIEVES THAT THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN (INCLIDING DATA AND STATEMENTS) ARE ACCURATE AS OF THE DATE HEREOF. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN, THE INFORMATION PROVIDED HEREIN, THE INFORMATION PROVIDED HEREIN RELATES ONLY TO THE SPECIFIC PRODUCT DESIGNATED AND MAY NOT BE VALLED WHERE SUCH PRODUCT IS USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. FURTHER, SINCE THE CONDITIONS AND METHODS OF USE ARE BEYOND THE CONTROL OF ARKEMA INC., ARKEMA INC. EXPRESSLY DISCLAIMS ANY AND ALL LIABILITY AS TO ANY RESULTS OBTAINED OR ARISING FROM ANY USE OF THE PRODUCT OR RELIANCE ON SUCH INFORMATION.

PRODUCT CODE: 04022

REVISION: 9

ISSUED: 11 OCT 2004