

# NOR-AM CHEMICAL COMPANY

MSDS 32 05/28/85

Page 1 of 4

TRADE NAME ----- FICAM W, TURCAM, BENDIOCARB WP BULK PACK  
COMMON NAME OF ACTIVE INGREDIENT - BENDIOCARB  
PRIMARY HAZARDS ----- ACUTE ORAL TOXICITY

MANUFACTURER ----- NOR-AM CHEMICAL COMPANY  
1704 WHITEHALL ROAD  
MUSKEGON, MI  
DATA SOURCE ----- NOR-AM CHEMICAL COMPANY  
3509 SILVERSIDE ROAD  
PO BOX 7495  
WILMINGTON, DE 19803

EMERGENCY TELEPHONE - (302) 575-2000  
CHEMTREC -- (800) 424-9300  
PREPARATION DATE ---- REVISED NOVEMBER 20, 1985

## SECTION 1 - MATERIAL IDENTIFICATION . . . . .

TRADE NAME ----- FICAM W, TURCAM, BENDIOCARB WP BULK PACK  
COMMON CHEMICAL NAME- BENDIOCARB  
EPA REGISTRATION NO.- FICAM W: 45639-1; TURCAM: 45639-59;  
BENDIOCARB WP BULK PACK: 45639-2

## SECTION 2 - INGREDIENTS . . . . .

### INGREDIENT 1

COMMON NAME ----- BENDIOCARB  
NOR-AM I.D. NUMBER -- NC 6897  
CHEMICAL NAME ----- 2,2-DIMETHYL-1,3-BENZODIOXOL-4-YL  
METHYLCARBAMATE  
MOLECULAR FORMULA --- C<sub>11</sub>H<sub>13</sub>NO<sub>4</sub>  
PERCENT ----- 76%  
CAS NUMBER ----- 22781-23-3

## SECTION 3 - PHYSICAL DATA . . . . .

MELTING POINT ----- NOT APPLICABLE  
VAPOR PRESSURE ----- 5 X 10<sup>-6</sup> MM HG  
APPEARANCE ----- WHITE POWDER  
ODOR ----- ODORLESS  
SOLUBILITY IN WATER - DISPERSIBLE  
SPECIFIC GRAVITY ---- NOT APPLICABLE

## SECTION 4 - FIRE AND EXPLOSION DATA . . . . .

FLASH POINT ----- NOT APPLICABLE  
METHOD ----- NOT APPLICABLE  
EXTINGUISHING MEDIA - DRY CHEMICAL, FOAM OR WATER

\*\*\*\*\*CONTINUED ON NEXT PAGE\*\*\*\*\*

M  
A  
T  
E  
R  
I  
A  
L  
S  
A  
F  
E  
T  
Y  
D  
A  
T  
A  
S  
H  
E  
E  
T

# NOR-AM CHEMICAL COMPANY

MSDS 32 05/28/85

Page 2 of 4

SPECIAL FIRE FIGHTING PROCEDURES -- AVOID INHALATION OF FUMES AND DUST.  
WEAR SELF-CONTAINED BREATHING APPARATUS. REMOVE FROM AREA OF  
FIRE AT FIRST OPPORTUNITY.

UNUSUAL FIRE AND EXPLOSION HAZARDS -- BENDIOCARB GIVES OFF METHYL  
ISOCYANATE FUMES WHEN HEATED.

FLAMMABLE LIMITS IN AIR UFL ----- NOT APPLICABLE

FLAMMABLE LIMITS IN AIR LFL ----- NOT APPLICABLE

## SECTION 5 - REACTIVITY

STABILITY ----- STABLE

HAZARDOUS POLYMERIZATION -- WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS -- BENDIOCARB GIVES OFF METHYL  
ISOCYANATE WHEN HEATED.

## SECTION 6 - HEALTH HAZARD

PRIMARY ROUTE OF ENTRY ---- DERMAL

THRESHOLD LIMIT VALUE ---- W.H.O. RECOMMENDED EXPOSURE LIMIT FOR  
BENDIOCARB 0.2 MG/M<sup>3</sup>

EFFECTS OF OVEREXPOSURE -- CHOLINESTERASE INHIBITOR; HEADACHE,  
CONSTRICTION OF PUPILS, SALIVATION,  
MUSCULAR INCOORDINATION AND TWITCHING,  
SWEATING, VOMITING. NOT A LISTED  
CARCINOGEN BY NTP OR IARC.

TOXICITY ----- ORAL: TOXIC; ACUTE ORAL LD50 (RAT): 179  
MG/KG.

DERMAL: LOW TOXICITY; ACUTE DERMAL LD50  
(RAT): GREATER THAN 1000 MG/KG.

## SECTION 7 - FIRST AID

### EMERGENCY FIRST AID PROCEDURES

INGESTION ----- DRINK 1 OR 2 GLASSES OF WATER AND INDUCE  
VOMITING BY TOUCHING BACK OF THROAT WITH  
FINGER. DO NOT INDUCE VOMITING OR GIVE  
ANYTHING BY MOUTH TO AN UNCONSCIOUS  
PERSON. GET MEDICAL ATTENTION.

IF INHALED ----- KEEP PATIENT STRICTLY AT REST AND  
TRANSFER TO HOSPITAL IMMEDIATELY TO GET  
MEDICAL ATTENTION.

EYES AND SKIN ----- IF IN EYES, RINCE THOROUGHLY WITH CLEAN  
WATER. IF ON SKIN, WASH WITH SOAP AND  
WATER.

NOTE TO PHYSICIAN ----- CONTAINS ANTICHOLINESTERASE CARBAMATE  
INSECTICIDE. IN CASES OF OVEREXPOSURE,  
ATROPINE SULFATE - 2 MG. (EQUIVALENT TO  
1/30 GRAIN ADULT DOSE) SHOULD BE GIVEN  
AND REPEATED AS NECESSARY UNTIL FULLY  
ATROPINIZED. MORPHINE CONTRAINDICATED.  
CONTROL CONVULSIONS WITH DIAZEPAM 10-20  
MG INTRAVENOUSLY. MIOSIS DUE TO DIRECT  
EYE CONTACT WILL REVERSE SPONTANEOUSLY  
WITHOUT SPECIFIC TREATMENT.

\*\*\*\*\*CONTINUED ON NEXT PAGE\*\*\*\*\*

M  
A  
T  
E  
R  
I  
A  
L  
S  
A  
F  
E  
T  
Y  
D  
A  
T  
A  
S  
H  
E  
E  
T

# NOR-AM CHEMICAL COMPANY

MSDS 32 05/28/85

Page 3 of 4

## SECTION 8 - SPILL, LEAK AND DISPOSAL PROCEDURES . . . . .

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED -- CAREFULLY SWEEP UP, AVOIDING FORMATION OF DUST CLOUD. PLACE IN SUITABLE CONTAINER AND SEAL. AREA CAN BE WASHED WITH WATER TO REMOVE LAST TRACES OF FICAM W, BUT KEEP OUT OF WATER COURSES OR SEWERS. INFORM AUTHORITIES IMMEDIATELY IF CONTAMINATION OCCURS.

WASTE DISPOSAL METHOD ----- WASTE, INCLUDING SPILLS OR RINSATES, AND LEFTOVER PESTICIDE THAT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS, MUST BE DISPOSED OF ACCORDING TO APPLICABLE FEDERAL, STATE OR LOCAL PROCEDURES.

## SECTION 9 - SPECIAL HANDLING . . . . .

RESPIRATORY PROTECTION ---- SUITABLE DUST RESPIRATOR  
VENTILATION ----- USE IN ADEQUATELY VENTILATED AREA.  
PROTECTIVE GLOVES ----- PVC RECOMMENDED.  
EYE PROTECTION ----- CHEMICAL GOGGLES OR FACE SHIELD.  
COMMENTS ----- OTHER PROTECTIVE EQUIPMENT: DUST MASK.

ALTHOUGH GENERAL GUIDANCE HAS BEEN PROVIDED, THE DEGREE OF PROTECTION REQUIRED IN A PARTICULAR SITUATION DEPENDS ON FACTORS SUCH AS CONCENTRATION AND DURATION. MORE DETAILED ADVICE ON PERSONAL PROTECTIVE DEVICES IS AVAILABLE FROM NOR-AM.

## SECTION 10 - SPECIAL PRECAUTIONS . . . . .

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. IF CONTACT OCCURS, REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA WITH SOAP AND WATER. IF CONTACT WITH EYES OCCURS, FLUSH WITH CLEAN WATER. AVOID BREATHING AND WORKING IN SPRAY MIST OR DUST. WASH HANDS AND EXPOSED SKIN BEFORE EATING, DRINKING OR SMOKING AND AFTER SPRAYING OR HANDLING. WASH ALL CONTAMINATED CLOTHING THOROUGHLY BEFORE RE-USE. DO NOT APPLY TO HUMANS, THEIR CLOTHING OR BEDDING. DO NOT PERMIT CHILDREN OR PETS NEAR TREATED SURFACE UNTIL SPRAY HAS DRIED COMPLETELY. DO NOT SPRAY WHERE ELECTRICAL SHORT CIRCUIT MIGHT RESULT. DO NOT USE ON OR CONTAMINATE FRUIT, VEGETABLES OR OTHER FEED OR FOOD CROPS. DO NOT STORE NEAR FEED OR FOOD PRODUCTS AND DO NOT CONTAMINATE THESE OR FOOD PREPARATION SURFACES, DISHES, KITCHEN UTENSILS AND FOOD CONTAINERS WITH EITHER CONCENTRATE OR SPRAY. STORE IN COOL, DRY PLACE AWAY FROM FOODSTUFFS. DO NOT STORE NEAR PRODUCTS WITH STRONG ODORS THAT WILL BE ABSORBED BY THE FICAM W. KEEP IN AN AREA SUITABLE FOR INSECTICIDE STORAGE AWAY FROM CHILDREN AND PETS.

----- CONTINUED ON NEXT PAGE -----

M  
A  
T  
E  
R  
I  
A  
L  
  
S  
A  
F  
E  
T  
Y  
  
D  
A  
T  
A  
  
S  
H  
E  
E  
T

# NOR-AM CHEMICAL COMPANY

MSDS 32 05/28/85

Page 4 of 4

ENVIRONMENTAL HAZARDS: THIS PRODUCT IS TOXIC TO FISH, BIRDS, AND OTHER WILDLIFE. BIRDS FEEDING ON TREATED AREAS MAY BE KILLED. DO NOT APPLY DIRECTLY TO WATER. KEEP OUT OF LAWN AND GARDEN FISH POOLS. DO NOT CONTAMINATE WATER BY CLEANING OF EQUIPMENT OR DISPOSAL OF WASTES. THIS PRODUCT IS HIGHLY TOXIC TO BEES EXPOSED TO DIRECT TREATMENT OR TO RESIDUES ON PLANTS.

## SECTION 11 - SHIPPING REGULATIONS . . . . .

DOT SHIPPING NAME ----- NONE  
DOT HAZARD CLASS/I.D. NO. - NONE  
DOT LABEL(S) ----- NONE  
FREIGHT CLASSIFICATION ---- INSECTICIDES, OTHER THAN AGRICULTURAL,  
DRY, N.O.I.

THIS INFORMATION IS PROVIDED IN GOOD FAITH BUT WITHOUT EXPRESS OR IMPLIED WARRANTY.

M  
A  
T  
E  
R  
I  
A  
L  
S  
A  
F  
E  
T  
Y  
D  
A  
T  
A  
S  
H  
E  
E  
T