

MATERIAL SAFETY DATA SHEET

Agricultural Products Group
P.O.Box 13528,
Research Triangle Park, NC 27709
(919) 547-2000

EMERGENCY TELEPHONE NUMBERS:

BASF Corporation: 1 (800) 832-HELP

CHEMTREC: 1 (800) 424-9300

Product No.: 579821

MMPDC

Date Prepared: 3/9/2001 Date Revised:

SECTION I

Trade Name: MMPDC

Chemical Name: 5-methoxymethyl-2,3-pyridine dicarboxylic acid

Synonyms: 5-MMPDC, CL 334,151

Formula: C₉ H₉ NO₅

Chemical Family: Dicarboxylic Acid

Mol Wt: 211.2

SECTION II - INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
CL 334,151 [MMPDC]	143382-03-0	99	None established
Impurities		1	

SARA Title III Section 313: Not Listed

SECTION III - PHYSICAL DATA

BOILING/MELTING POINT@760mm Hg:

pH: 1.7 [saturated solution]

VAPOR PRESSURE mmHg @ 20°C: N/D

SPECIFIC GRAVITY OR BULK DENSITY: 0.7 g/mL

SOLUBILITY IN WATER: 3.3 g/100mL @ 25°C

APPEARANCE: White to tan powder

ODOR: Odorless

INTENSITY: N/A

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): N/A

AUTOIGNITION TEMP: N/D

FLAMMABILITY LIMITS IN AIR (% BY VOL):

LOWER: N/D

UPPER: N/D

NFPA 704 HAZARD CODES

HEALTH: N/R

FLAMMABLE: N/R

INSTABILITY: 0

OTHER: N/R

NFPA 30 STORAGE CLASSIFICATION: N/R

**EXTINGUISHING
MEDIUM**

Use water fog, foam, CO(2), or dry chemical extinguishing media.

**SPECIAL
FIREFIGHTING
PROCEDURES**

Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

**UNUSUAL FIRE
EXPLOSION
HAZARDS**

None known.

For a solid product: Organic dusts may form an explosive dust/air mixture. Decomposition temperature 153°C.

SELECT ACRONYM KEY

N/A - Not available; N/D - Not determined; N/R - Not rated; N/E - Not established

SECTION V - HEALTH DATA**TOXICOLOGICAL TEST DATA:**

Rat [Male] Oral LD50 > 10000 mg/kg
 Rabbit [Male] Dermal LD50 > 2000 mg/kg
 Rat, Inhalation LC50 (4 hr) - Not available
 Rat, Inhalation LC50 (1 hr calculated) - Not available
 Rabbit, Eye Irritation - Extremely corrosive
 Rabbit, Skin Irritation - Non-irritating
 Guinea pig, Dermal Sensitizer - Not available

OSHA, NTP, or IARC Carcinogen: Not listed.

EFFECTS OF OVEREXPOSURE:

See Product Label and Directions For Use for additional precautionary statements.

DANGER: KEEP OUT OF THE REACH OF CHILDREN. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. DO NOT GET IN EYES OR ON CLOTHING. AVOID BREATHING DUSTS.

Existing medical conditions aggravated by this product: None known.

FIRST AID PROCEDURES

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Note to physician: Material is corrosive to mucus membranes. Probable mucosal damage may contraindicate the use of gastric lavage.

Note: Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION VI - REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Store in original container in cool, dry, well ventilated place away from ignition sources, heat or flame.

CHEMICAL INCOMPATIBILITY: Oxidizing agents. Mild steel and aluminum

HAZARDOUS DECOMPOSITION PRODUCTS: Including but not limited to oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Does not occur.

CONDITIONS TO AVOID: Does not polymerize.

CORROSIVE TO METAL: Yes. See above.

OXIDIZER: No

SECTION VII - PERSONAL PROTECTION

PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory Protection:

Supplied air respirators should be worn if large quantities of mist/dust are generated or prolonged exposure possible.

Eye Protection:

Chemical goggles when respirator does not provide eye protection.

Protective Clothing:

Gloves and protective clothing as necessary to prevent skin contact.

Ventilation:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

SECTION VIII - ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA

None available

SARA 311/312 REPORTING

FIRE:N PRESSURE:N REACTIVITY:N ACUTE:Y CHRONIC:N TPQ(lbs): N/R

SPILL AND LEAK PROCEDURES:

In case of large scale spillage of this product, avoid contact, isolate area and keep out animals and unprotected persons. Call CHEMTREC (800 424-9300) or BASF Corporation (800 832-HELP). For a small spill, wear personal protective equipment as specified on the label.

FOR A LIQUID SPILL: Dike and contain the spill with inert material (sand, earth , etc.) and transfer the liquid and solid diking materials to separate containers for disposal.

FOR A SOLID SPILL: Sweep solid into a drum for re-use or disposal. Remove personal protective equipment and decontaminate it prior to re-use.

HAZARDOUS SUBSTANCE SUPERFUND: No

RQ(lbs): None

WASTE DISPOSAL METHOD:

Follow all applicable Federal, State and Local regulations regarding waste management methods. If there are questions regarding the disposal of this product contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

HAZARDOUS WASTE 40CFR261: No

HAZARDOUS WASTE NUMBER:None

CONTAINER DISPOSAL:

FOR PLASTIC CONTAINERS: Triple rinse (or equivalent) and add rinsate to the spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

FOR BULK CONTAINERS: Reusable containers should be returned to the point of purchase for cleaning and re-filling.

FOR MINIBULK CONTAINERS: Clean all tanks on an approved loading pad so rinsate can be collected and mixed into the spray solution or into a dedicated tank. Using a high pressure sprayer, rinse several times with small volumes of water to minimize rinsate.

SECTION IX - SHIPPING DATA - PACKAGE AND BULK

D.O.T. PROPER SHIPPING NAME (49CFR172.101-102):

HAZARDOUS SUBSTANCE
(49CFR CERCLA LIST):

RQ(lbs): None

D.O.T. HAZARD CLASSIFICATION (CFR 172.101-102):

PRIMARY

SECONDARY

D.O.T. LABELS REQUIRED (49CFR172.101-102):

D.O.T. PLACARDS
REQUIRED (CFR172.504):POISON CONSTITUENT
(49CFR172.203(K)):**BILL OF LADING DESCRIPTION**

Not regulated by the Department of Transportation.

CC NO.: Not applicable

UN/NA CODE:

SECTION X - ADDITIONAL INFORMATION**MMPDC**

Not for use in or around the home.

KEEP OUT OF REACH OF CHILDREN**DANGER****Complete Label and Directions For Use are attached to the product.****Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

BASF CorporationAgricultural Products Group
P.O.Box 13528,
Research Triangle Park, NC 27709
(919) 547-2000**DISCLAIMER**

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.