## **BASF** Corporation

# **BASF**

### 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.: 58A035

Pendulum AquaCap™

Date Prepared: 8/	14/2002 Date Revised:			
		SECTIO	N I	
Trade Name: F	Pendulum AquaCap™			
<b>Chemical Name</b>	: N-(1-et 1y/propyl)-3,4-	dimethyl-2,6-din	itrobenze	enamine
	endimethalin CS 455 G/L; endulum 3.8 CS	BAS 455 H, AC 5	92 ,553, F	Formula: C13 H19 N3 O4
Chemical Famil	y: Dinitroariline	Mol Wt: 281.3		
	SEC.	TION II - ING	REDIE	NTS
CC	OMPONENT'	CAS NO.	%	PEL/TLV - SOURCE
Pendimethalin		40487-42-1	38.7	3 mg/m3 [BASF recommended]
Ethylene dichlori	de	107-06-2	(0.42)	1 ppm (TWA) [OSHA]
				2 ppm (STEL) [OSHA]
Inerts		N/A	61.3	None established
SARA Title III Se	ection 313: *Listed			
	SECTI	ON III - PHY	SICAL	DATA
BOILING/MELTI	NG POINTഈ760mm Hg:	N/D		pH: 7 - 9 (neat formulation)
VAPOR PRESS	URE mmHg @ 20°C: N/I	D		
SPECIFIC GRAV	VITY OR BULK DENSITY:	1.165 - 1.185	g/mL	9.71 - 9.88 lb/gal
SOLUBILITY IN	WATER: N/D			
APPEARANCE:	Orange-yellow opaque	liquid OI	OR: Woo	ody INTENSITY: Mild
	SECTION IV	- FIRE AND	EXPL	OSION DATA
FLASH POINT (T	EST METHOD): N/D (A	Aqueous)		AUTOIGNITION TEMP: N/D
LAMMABILITY I	IMITS IN AIR (% BY VOL)	:	LOWER	: N/D UPPER: N/D
NFPA 704 HAZAI	RD CODES			
HEALTH: 1	FLAMMABLE: 1	INSTABI	LITY: 0	OTHER: N/R
NFPA 30 STORA	GE CLASSIFICATION:	N/R		
EXTINGUISHING MEDIUM	Use water fog, foam, CO	(2), or dry chem	ical extin	guishing media.
SPECIAL FIREFIGHTING PROCEDURES	Firefighters should be e	quipped with se	f-contain	ed breathing apparatus and turnout gea
UNUSUAL FIRE EXPLOSION HAZARDS	None known.			

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### 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:

Data for formulated product

Rat, Oral LD50 > 5000 mg/kg

Rat, Dermal LD50 > 5000 mg/kg

Rat, Inhalation LC50 (4 hr) > 5.2 mg/L

Rat, Inhalation LC50 (1 hr calculated) > 20.8 mg/L

Rabbit, Eye Irritation - Non- to slightly irritating

Rabbit, Skin Irritation - Non- to slightly irritating

Guinea pig, Dermal Sensitizer - Not a sensitizer

The US EPA has classified p∈ndimethalin an oncogenicity rating of "low c" (possible human carcinogen).

A marked depression in body weight gain and statistically significant increase in benign thyroid proliferative lesions were observed at the highest dose tested (5000 ppm) in the lifetime (24 month) rat study.

OSHA, NTP, or IARC Carcinogen: Ethylene dichloride listed - IARC - Possibly carcinogenic to humans; NTP -Reasonably anticipated to be a human carcinogen

#### EFFECTS OF OVEREXPOSURE:

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

Avoid contact with skin, eyes or clothing

Wash toroughly with soap and water after handling.

Existing medical conditions aggravated by this product:

None known

#### FIRST AID PROCEDURES

If in eyes:

Hold eile 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 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 on skin or clothing:

Take cff ( ontaminated 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:

There is no specific antidote for exposure to this material.

Note:

Pendimethalin is a strongly orange-red compound - virtually an aniline dye. Cases have been described of orange-yellow coloration of urine following heavy exposure of workers to the dust of pendimethalin. Despite its structure as both a nitro-compound and aromatic amine, exposure to pendimethalin is NOT associated with metherno globinemia.

Note:

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

### SECTION VI - REACTIVITY DATA

STABILITY: Stable. Do not store below 15°F.

CONDITIONS TO AVOID:

Store in original container in cool, dry, well ventilated place away from ignition sources,

heat or flame.

CHEMICAL INCOMPATIBILITY: Oxidizing agents.

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:

Nild steel and bras

OXIDIZER: No

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### 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

#### Eye Protection:

Chemical goggles when respirator does not provide eye protection.

#### Protective Clothing:

Chemical resistant gloves and protective clothing as necessary to prevent skin contact.

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

### SECTION VIII - ENVIRONMENTAL DATA

### **ENVIRONMENTAL TOXICITY DATA**

Data for the formulated product:

Honeybee, 48hr Oral LD50 > 86.4 ug/bee

Honeybee, 48hr Contact LD50 > 100 ug/bee

Based on the active ingredient this product will likely be very toxic to fish, aquatic invertebrates, and algae.

#### 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:

RQ(lbs): 100 lbs

#### WASTE DISPOSAL METHOD:

Pesticide wastes are acutely hazardous. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, 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-

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.

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SECTION IX - SHIPPING DATA - PACKAGE AND BULK

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

Less than 2452 gal - None

> 2452 gal - Environmentally hazardous substances, liquid, N.O.S.

HAZARDOUS SUBSTANCE (49CFR CERCLA LIST):

Ethylene Dichloride

RQ(lbs): 100 lbs

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

PRIMARY

SECONDARY

Less than 2452 gal - None > 2452 gal - 9

None

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

D.O.T. PLACARDS

POISON CONSTITUENT (49CFR172.203(K)):

Less than 2452 gal - None > 2452 gal - 9

REQUIRED (CFR172.504): Less than 2452 gal - None

>2452 gal - 9

None

BILL OF LADING DESCRIPTION

Not regulated by the Department of Transportation in package sizes of less than 2452 gallons. Equal to or greater than 2452 gal - RQ, Environmentally hazardous substances, liquid, N.O.S. (ethylene dichloride), 9, UN 3082, PG III ERG 171

CC NO.: Not applicable

UN/NA CODE:

UN 3082

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