

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

SEP - 3 2013

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Rhonda Vance-Moeser Product Stewardship Regulatory Manager The Dow Chemical Company 1650 Joseph Drive, 100 Larkin Midland, MI. 48674

Subject:

DBNPA 100 Powder

EPA Registration Number: 464-389 Application Date: August 27, 2013 Receipt Date: August 28, 2013

Dear Ms. Vance-Moeser:

This acknowledges receipt of your Notification submitted in accordance with the provisions of Pesticide Registration (PR) Notice 98-10 under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(c)9.

Proposed Notification

Revise Industrial Processes and Products, Process Water Clean Up and Raw Material Clean Up use directions to change "consumer, household or institutional products" to "industrial products".

General Comments

Based on a review of the material submitted, the Notification is acceptable.

Should you have any questions about this letter, please contact Tom Luminello at (703) 308-8075.

Anneerery

Jacqueline Hardy

Product Manager 34

Regulatory Management Branch II Antimicrobials Division (7510 P)

Please read instructions on reverse before completing form.	Form Approved, OMB No. 20	Print Form								
United States Environmental Protection Ag Washington, DC 20460	ency Registra Amenda Other									
Application for Pesticide - Section I										
1. Company/Product Number 464-389	2. EPA Product Manager Jacquie Campbell-McFarlane	3. Proposed Classification								
4. Company/Product (Name) The Dow Chemical Company/ DBNPA 100 Powder	PM# 34	X None Restricted								
5. Name and Address of Applicant (Include ZIP Code) The Dow Chemical Company 1803 Building Midland, MI 48674 Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name									
Se	ction - II									
Amendment - Explain below. Resubmission in response to Agency letter dated										
Explanation: Use additional page(s) if necessary. (For section I and Section II.) Notification of label change. Refer to enclosed cover letter. Required Notification statement on enclosed cover letter.										
Se	ction - III									
Material This Product Will Be Packaged In:										
Yes Yes No. per If "Yes" No. per	er Soluble Packaging Yes No Yes No. per (age wgt container	Container Metal Plastic Glass Paper Other (Specify)								
3. Location of Net Contents Information 4. Size(s) Retail Con	On Label									
Label Container 6. Manner in Which Label is Affixed to Product Lithograph	On Label	ing accompanying product								
Paper glued Stenciled	C Other									
Se	ction - IV									
1. Contact Point Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)										
Name Rhonda Vance-Moeser Title Sr. Re	gulatory Specialist	Telephone No. (Include Area Code) (989) 636-1884								
င်မင်းရှိကြီးချိုင်ချိန်ချိန်ချိန်ချိန်ချိန်ချိန်ချိန်ချိန	chments thereto are true, accurate and co	6. Data Application Received or (Stamped)								
2. Signature Bhonda Vance-Moeser / Ht. Sr. Re	၌ulatory(Specialist									
4. Typed Name 5. Date										
August 27, 2013										



The Dow Chemical Company Midland, MI 48674

August 27, 2013

Office of Pesticide Programs (7504P)
Document Processing Desk (NOTIF)
U. S. Environmental Protection Agency
One Potomac Yard, Room S-4900
2777 S. Crystal Drive
Arlington, Virginia 22202-4501

Overnight Mail

RE: NOTIFICATION - EPA REG. NO. 464 - 389 - DBNPA 100 POWDER

The Dow Chemical Company (Dow) hereby submits a Notification to change EPA label dated 1-7-13. *Section:* INDUSTRIAL PROCESSES AND PRODUCTS - PROCESS WATER CLEANUP

FROM:

INDUSTRIAL PROCESSES & PRODUCTS

PROCESS WATER CLEAN UP

Label language for product supplied in canisters for feeder device:

For control of microbial growth in process water used to make consumer, household or institutional products. Place product in feeder device to continuously dose system at a rate of 25 - 400 ppm per day of product to the water in the system depending on the severity of contamination.

RAW MATERIAL CLEAN UP

Label language for product supplied as powder in general packaging:

To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add the product directly to the raw material at a concentration of 25 -400 ppm by weight.

Label language for product supplied in water soluble packaging:

To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add one bag of product directly to the raw material per 5,000 - 40,000 lbs of raw material.

TO:

INDUSTRIAL PROCESSES & PRODUCTS

PROCESS WATER CLEAN UP

Label language for product supplied in canisters for feeder device:

For control of microbial growth in process water used to make industrial products. Place product in feeder device to continuously dose systesn as a rate of 25-400 ppm per day of product to the water in the system depending on the severity of contamination.

RAW MATERIAL CLEAN UP

Label language for product supplied as powder in general packaging:

To reduce microbial contamination in raw materials used to make industrial products, add the product directly to the raw material at a concentration of 25 -400 ppm by weight.



The Dow Chemical Company Midland, MI 48674 U.S.A.

Label language for product supplied in water soluble packaging:

To reduce microbial contamination in raw materials used to make industrial products, add one bag of product directly to the raw material per 5,000- 40,000 lbs of raw material.

In order for the application to be processed the required Notification statement is included below. "This Notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject enforcement action and penalties under section 12 and 14 of FIFRA"

Enclosed are the following documents to support this notification

- 1) Completed application for Pesticide Registration, Form 8570-1.
- 2) Required notification statement above & three label copies with one highlighted indicating change.

Please contact me if you have any questions or need additional information.

Sincerely,

Francia Clause-Mason

Rhonda Vance-Moeser Product Stewardship Regulatory Manager 1650 Joseph Drive, 100 Larkin Midland, MI 48674

Phone: (989) 636-1884

e-mail: rgvmoeser@dow.com

Enclosures

DBNPA 100 Powder

[Brackets indicate p

FOR INDUSTRIAL USE

Active Ingredient(s):				
2,2-Dibromo-3-nitrilopropionamide				
Inert Ingredient(s):				
Total	100.0%			

DANGER

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER

CORROSIVE • Causes irreversible eye damage • May be fatal if inhaled or swallowed • Causes skin irritation • Harmful if absorbed through the skin. • Do Not Get In Eyes, on Skin, or on Clothing • Do not breathe dust. • When loading or handling wear protective eyewear (goggles or face shield), long-sleeved shirt and long pants, socks, shoes, chemically resistant gloves and a NIOSH approved respirator • Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals • Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet • Remove and wash contaminated clothing separately from other laundry before reuse.

Personal protective equipment

Applicators and other handlers must wear:

- Coveralls, over long-sleeved shirt and long pants
- socks and chemical resistant footwear
- Goggles or face shields
- Chemical-resistant gloves (such as barrier laminate, butyl nitrile/neoprene rubber, PVC or viton)

Engineering Controls

Label language for product supplied as powder in general packaging: When handlers use closed metering systems, the handler requirements may be reduced or modified to long-sleeve shirt, long pants, shoes, socks, gloves and safety glasses with side shields.

Label language for product supplied in water soluble packaging:

When handlers use water soluble bags the handler requirements may be reduced or modified to long-sleeve shirt, long pants, shoes, socks, gloves and safety glasses with side shields.

Label language for product supplied in canisters for feeder device: When handlers use feeder devices the handler requirements may be reduced or modified to long-sleeve shirt, long pants, shoes, socks, gloves and safety glasses with side shields.

User Safety Instructions

Follow manufacturers' instructions for cleaning & maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash RPE separately from other laundry.

User Safety Procedures

Users must wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Application Restrictions

Do not apply this product directly in a way that will contact workers or other persons, either directly or through drift. Only protected frandlers may be in the area during application.

	FIRST AID						
IF IN EYES	 Hold eye open and rinse slowly and gently with water the Remove contact lenses, if present, after the first 5 min rinsing eye. Call poison control center or doctor for treatment advices. 						
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 Call a poison control center or doctor for treatment adv						
IF SWALLOWED	 Call poison control center or doctor immediately for tre Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poiso doctor. Do not give anything by mouth to an unconscious person 						
IF INHALED	Move person to fresh air. If person is not breathing, call an emergency responde give artificial respiration, preferably mouth to-mouth. Call a poison control center or doctor for further treatments.						

Have product container or label with you when calling a poison control certreatment.

HOT LINE NUMBER

IN CASE OF AN EMERGENCY endangering life or property involving this p 636-4400.

NOTE TO PHYSICIAN

Maintain adequate ventilation and oxygenation of the patient. Material may edema. For persons receiving significant exposure to this material, construder observation for 48 – 72 hr. for delayed onset of pulmonary edeintermittent positive pressure breathing, assisted respiration/CPAP and considered in treatment. Physical exertion may potentiate exposure effe hours. May cause respiratory sensitization or asthma-like symptoms. Bror and antitussives may be of help. Treat bronchospasm with inhaled be parenteral corticosteroids. Chemical eye burns may require extended consultation, preferably from an ophthalmologist. If burn is present, treat a decontamination. No specific antidote. Treatment of exposure should be symptoms and the clinical condition of the patient.

Environmental Hazards

This pesticide is toxic to fish and aquatic organisms. Apply this product label. Do not contaminate water by cleaning of equipment, or disposal of effluent containing this product into lakes, streams, ponds, estuaries, ocea in accordance with the requirements of a National Pollutant Discharge Elir permit and the permitting authority has been notified in writing prior to dis effluent containing this product to sewer systems without previously not read the plant authority. For guidance contact your State Water Board EPA

E.P.A. Regi

NET WT: XXX lb / XXX kg

[Option for product supplied in water soluble packaging [Option for product supplied in canisters for feeder dev

LOT:

wder

[Brackets indicate phrases that will not appear on [MASTER LABEL]

97.6% 2.4% 100.0%

DREN

ITS nais

atal if inhaled or ugh the skin. • Do it. • When loading long-sleeved shirt res and a NIOSH contact may cause th soap and water using tobacco or g separately from

e/neoprene rubber

ckaging: nents may be , gloves and safety

ing: ay be reduced or d safety glasses

evice: pe reduced or d safety glasses

g PPE. If no such eep and wash PPE

ng tobacco or using ຮ [nside. Then wash ເ immediately after ຄວັບing.As soon as

rs or other persons, in the area during

	FIRST AID
IF IN EYES	Hold eye open and rinse slowly and gently with water for 30 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call 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 SWALLOWED	 Call 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 do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF INHALED	Move person to fresh air. If person is not breathing, call an emergency responder or an ambulance, then give artificial respiration, preferably mouth to-mouth. Call a poison control center or doctor for further treatment advice.

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

HOT LINE NUMBER

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect 989-636-4400.

NOTE TO PHYSICIAN

Maintain adequate ventilation and oxygenation of the patient. Material may cause severe pulmonary edema. For persons receiving significant exposure to this material, consider chest x-ray and keep under observation for 48 – 72 hr. for delayed onset of pulmonary edema. Humidified oxygen, intermittent positive pressure breathing, assisted respiration/CPAP and steroid therapy should be considered in treatment. Physical exertion may potentiate exposure effects during the first 24 -72 hours. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Environmental Hazards

This pesticide is toxic to fish and aquatic organisms. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment, or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the FPA

E.P.A. Registration No. 464-389 E.P.A. Est. No. XXX-XX-XXX

NET WT: XXX lb / XXX kg

[Option for product supplied in water soluble packaging:] Net Contents:

[Option for product supplied in canisters for feeder device:] Net Contents:

LOT:

Storage and Disposal

Do not contaminate water, food, or fee

Pesticide Storage

Label language for product supplied at To maintain product quality, store at temp Label language for product supplied in To maintain product quality, store at temp Do not remove from container except for bag.

Label language for product supplied in To maintain product quality, store at temp. Do not remove from container except for packaging. DO NOT remove the product Label language for product supplied in To maintain product quality, store at temp. packaging until ready to use in feeder de

Pesticide Disposal

Pesticide wastes are acutely hazardous. violation of Federal Law. If these wastes contact your State Pesticide or Environm the nearest EPA Regional Office for guid

Container Disposal:

Label language for product supplied Non refillable container. Do not reuse shaking and tapping sides and bottom of for recycling or reconditioning if available procedures approved by state and local: Label language for product supplied Non refillable container. Do not reuse shaking and tapping sides and bottom of for recycling or reconditioning if available procedures approved by state and local Label language for product supplied Nonrefillable container. Do not reuse liners by shaking and tapping sides and Then offer for recycling if available, or d procedures approved by state and local Label language for product supplied Nonrefillable container. Do not reuse tapping sides and bottom to loosen cling times, then offer for recycling if available procedures approved by state and local dispose of it in the manner required for

Notice: Seller warrants that this produc fit for the purposes stated on the label on NO OTHER EXPRESS OR IMPLIED PARTICULAR PURPOSE OR ANY OTH

Produced For - When produced



The Dow Chemical Company .

Midland, Michigan 48674 (989) 636-4400

® TM Trademark of The Dow Ch affiliated company of Dow

ets indicate phrases that will not appear on printed label] [MASTER LABEL]

RST AID

s slowly and gently with water for 30 minutes. , if present, after the first 5 minutes, then continue

er or doctor for treatment advice.

lothing.

with plenty of water for 15-20 minutes. nter or doctor for treatment advice.

er or doctor immediately for treatment advice.

of water if able to swallow.

unless told to do so by a poison control center or

mouth to an unconscious person.

r.

g, call an emergency responder or an ambulance, then preferably mouth-to-mouth.

nter or doctor for further treatment advice.

en calling a poison control center or doctor or going for

life or property involving this product, call collect 989-

on of the patient. Material may cause severe pulmonary xposure to this material, consider chest x-ray and keep ayed onset of pulmonary edema. Humidified oxygen, sisted respiration/CPAP and steroid therapy should be may potentiate exposure effects during the first 24 -72 or asthma-like symptoms. Bronchodilators, expectorants ronchospasm with inhaled beta2 agonist and oral or ourns may require extended irrigation. Obtain prompt ogist. If burn is present, treat as any thermal burn, after atment of exposure should be directed at the control of atient.

ımental Hazards

rganisms. Apply this product only as specified on this g of equipment, or disposal of wastes. Do not discharge treams, ponds, estuaries, oceans or other waters unless ational Pollutant Discharge Elimination System (NPDES) is notified in writing prior to discharge. Do not discharge systems without previously notifying the local sewage intact your State Water Board or Regional Office of the

E.P.A. Registration No. 464-389 E.P.A. Est, No. XXX-XX-XXX

vater soluble packaging:] Net Contents:

anisters for feeder device:] Net Contents:

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage

Label language for product supplied as powder in general packaging:

Tổ maintain product quality, store at temperatures below 35°C. Keep container tightly closed when not in use.

Label language for product supplied in water soluble packaging:

To maintain product quality, store at temperatures below 35°C. Keep container tightly closed when not in use. Do not remove from container except for immediate use. DO NOT remove the product from water soluble

Label language for product supplied in water soluble packaging with additional plastic wrapper:

To maintain product quality, store at temperatures below 35°C. Keep container tightly closed when not in use.

Do not remove from container except for immediate use. When ready to use REMOVE outer plastic packaging, DO NOT remove the product from water soluble bag.

Label language for product supplied in canisters for feeder device:

To maintain product quality, store at temperatures below 35°C. Keep canister (jar) closed and in original packaging until ready to use in feeder device.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal:

Label language for product supplied as powder in general packaging:

Non refillable container. Do not reuse or refill container. Completely empty into application equipment by shaking and tapping sides and bottom of container to loosen clinging particles. Then offer empty container for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Label language for product supplied in water soluble packaging:

Non refillable container. Do not reuse or refill container. Completely empty into application equipment by shaking and tapping sides and bottom of container to loosen clinging particles. Then offer empty container for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Label language for product supplied in water soluble packaging with additional plastic wrapper:

Nonrefillable container. Do not reuse or refill container or bag liners. Completely empty container and bag liners by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into mix tank.

Then offer for recycling if available, or dispose of container and liners in a sanitary landfill or by other procedures approved by state and local authorities.

Label language for product supplied in canisters for feeder device:

Nonrefillable container. Do not reuse or refill canisters. Completely empty canisters by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into mix tank. Rinse canister three times, then offer for recycling if available, or dispose of canisters in a sanitary landfill or by other procedures approved by state and local authorities. If feeder device is contaminated and cannot be reused, dispose of it in the manner required for canisters.

Notice: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Produced For - When produced by a contract manufacturer

Dow				•		•	• •	•	•						
The Dow Chemical Com	рą	ıny	٧.	,			0 0		۵				a	,	
Midland, Michigan 48674	•	:	•	:		•	• _		•	_		•	•	:	
(989) 636-4400	Ξ.	፡	• :	•	٠	•	.:	•	•	•	•		• •		
® TM Trademark of The I	Эo	w	С	he	emi	ica	al (Co	m	pai	ŋу	("	Dον	w")	ora

DBNPA 100 Fowder

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with the labeling.

MOTE: PRODUCT MUST BE ADDED SEPARATELY TO THE SYSTEM. DO NOT MIX WITH OTHER ADDITIVES, IN ORDER TO AVOID DECOMPOSITION OF THE ACTIVE INGREDIENT DUE TO THE HIGH PH OF MANY ADDITIVE FORMULATIONS.

PAPER MILLS

Not registered for this use in the State of California – [Optional]

Label language for product supplied as powder in general packaging:

For the control of bacterial, fungal, and yeast growths in pulp, paper, and paperboard mills, add a solution of product at the rate of 0.03-0.10 b. productiven of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the seventy of contamination. It must be made with a metering pump or chemical feeder device at a location that will ensure uniform distribution of product in the mass of fiber and water, such as the beaters, jordan infelt or discharge, broke chests, furnish chests, save-alls, and white-watertarks.

HEAVILY FOULED SYSTEMS must be boiled out, then treated with 0.03-0.07 lb. production of paper (dry basis), as penessay for control.

HEAVILY FOULED SYSTEMS must be boiled out, then treated with 0.03-0.07 lb. product/ton of paper (dry basis), as necessary for control.

MODERATELY FOULED SYSTEMS must be treated continuously with 0.07-0.10 lb. product/ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.03-0.07 lb. product/ton of paper, on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a dean-up of the paper machine may be advisable.

SLIGHTLY FOULED SYSTEMS must be treated continuously with 0.03-0.07 lb. product/ton of paper (dry basis) until slime is controlled, then added on an intermittent basis to maintain control.

Label language for product supplied in water soluble packaging:

For the control of bacterial, fungal, and yeast growths in pulp, paper, and paperboard mills, add a solution of product at the rate of 0.03-0.10 lb. product/ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the seventry of contamination. It must be made with a meter pump or chemical feeder device at a location that will ensure uniform distribution of product in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests, save-alls, and white-water tanks. HEAVILY FOULED SYSTEMS must be boiled out, then treated with 0.03-0.07 lb. product/ton of paper (dry basis), as necessary for control.

as necessary for control.

MODERATELY FOULED SYSTEMS must be treated continuously with 0.07-0.10 lb. production of paper (dry basis), and the stime accumulation is controlled. Addition rates can then be reduced to 0.03-0.07 lb. production of paper, on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a dean-up of the paper machine may be advisable. SLIGHTLY FOULED SYSTEMS must be treated continuously with 0.03-0.07 lb. product/ton of paper (dry basis)

until slime is controlled, then added on an intermittent basis to maintain control

Label language for product supplied in canisters for feeder device: Not applicable.

INDUSTRIAL OR COMMERICAL COOLING WATER SYSTEMS

IRDUSTRIAL OR COMMENICAL COULING WALER SYSTEMS

Not registered for this use in the State of California - [Optional]

Not registered for this use in the State of California

Not intended for use in once-through cooling systems.

Label language for product supplied as powder in general packaging:

For control of microbial growth in industrial or commercial cooling water systems use either continuous or slug

Note: A solution of product may be made on site for dosing the system.

DO NOT MIX the product solution with other additives, in order to avoid decomposition of the active ingredient due

to the high ph of many additive formulations. CONTINUOUS FEED

Add product to metering device for continuous feed. Add 1-24 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment. SLUG DOSING

Add product to basin of cooling system or at any other point of uniform mixing. Add 5-24 ppm product to the water in the system depending upon severity of contamination. Repeat treatment every four days or as needed to maintain control. Do not exceed more than 24 ppm product in system water per day. Badly fouled systems must be cleaned

Label language for product supplied in water soluble packaging:

For control of microbial growth in industrial or commercial cooling water systems the product may be used for

intermittent or slug dosing.
INTERMITTENT or SLUG DOSING

Add one bag for every 5,000-24,000 gallons of water in the system depending upon severity of contamination. Repeat treatment every four days or as needed to maintain control. Do not exceed more than one bag per 5,000 gallons of water per day. Badly foued systems must be cleaned before treatment.

gainors of water per day. Baday found systems must be detained before treatment. Labet language for product supplied in canisters for feeder device: For control of microbial growth in industrial or commercial cooling water systems the product may be used with the appropriate feeder to provide up to four weeks of control. Place canister(s) in side stream feeder device. Canisters may be stacked in feeder device to achieve desired dosing level. Use product in canisters to continuously dose system. Add 1-24 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment is begun.

AIR-WASHER SYSTEMS

Not registered for this use in the State of California – [Optional] Not registered for this use in the State of California

Not registered for this use in the State of California

NOTE: For use only in inclustrial air-washer systems that maintain effective mist eliminating components.

Label language for product supplied as powder in general packaging:

For control of microbial growth in air washer systems use either continuous or stug dosing.

Note: A solution of product may be made on site for dosing the system, DO NOT MIX the product solution with other additives, in order to avoid decomposition of the active ingredient due to the high pH of many additive formulations.

CONTINUOUS FEED

Add product using metering device for continuous feed. Add 4-24 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment. SLUG DOSING

SLUG DOSING
Add product to basin of system or at any other point of uniform mixing. Add 1-24 ppn; product to the waler in the system depending upon severity of contamination. Repeat treatment every four days or as needed to maintain control. Do not exceed more than 24 ppm product in system water per day. Badly touled systems must be cleaned

Label language for product supplied in water soluble packaging:

For control of microbial growth in air washer systems the product may be used for intermittent and slug dosing. INTERMITTENT or SLUG DOSING

INTERMITTENT or SLÜG DOSING
Add one bag for every 5,000 – 120,000 gallons of water in the system decepting upon severity of ontamination.
Repeat treatment every four days or as needed to maintain control. To not exceed more than one hap per 5,000, gallons of water per day. Badly fouled systems must be cleaned before treatment.

Label language for product supplied in canisters for feeder divice:

The control of microbial growth in air washer systems the product may be used with the appropriate feeder to now the totor weeks of control.

Place canister(s) in side stream feeder device. Canisters may be stacked in feeder device to achieve desired dosing level. Use product in canisters to continuously dose system. Add 4-24 ppm per day of product to the water in the system depending on the severity of contamination. Badly found systems must be cleaned before treatment is

MEMBRANE SYSTEMS FOR INDUSTRIAL WATER

Not registered for this use in the State of California – [Optional] Not registered for this use in the State of California

Not registered for this use in the State of California
Label language for product supplied as powder in general packaging:
Alternate label language for product supplied in water soluble packaging:
Product may be used for control or microbial growth and to reduce bioloding in various membrane system types (reverse osmosis, uthralifutation, nanofilitration, and microfilitration) used for industrial water processing.
Product should not be added in the presence of sodium bisulfite or other reducing agents which are being added to the feed water of the membrane system. In some situations the addition of any reducing agents must be suspended at least 15 minutes prior to the addition of product in order to avoid neutralization and deactivation of the active longrefilent. deactivation of the active ingredient.

Online cleaning
The product may be added to the RO feed water at a rate of 0.2 to 20 ppm based on the feed water flow rate. Apply product to the service cycle feed water on a regular basis using an addition cycle of at least 30 minutes. The frequency of addition may be daily or as necessary in order to maintain RO productivity performance. For highly fouled systems, a 20 ppm dosage should be applied each day for several hours until the system performance has recovered.

Offline dearning
Product may be added to the feed tank used for an off-line chemical cleaning procedure. Addition should be at a rate of 1 to 40 pm based on the total amount of solution in the feed tank. Following the complete transfer of feed solution, recirculate or soak for 1 to 3 hours to ensure sufficient contact for all RO membrane modules with the DBNPA solution. Frequency of addition should be every 5 days or as needed.

requency or addition should be every 5 days or as needed.

NOTE: Reverse Osmosis (RO) concentrate streams must not be discharged to lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System Permit (NPDES). Discharge of RO concentrate steams to sewer systems may require approval of the local sewer treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Label language for product supplied in canisters for feeder device:

Not applicable

PUBLICLY-OWNED TREATMENT WORKS

Not registered for this use in the State of California - (Optional) Label language for product supplied as powder in general packaging: Label language for product supplied in water soluble packaging: TO CONTROL COLIFORM AND OTHER BACTERIA

Add product at a concentration of 0.2 to 2 ppm by weight of water being treated, depending on the severity of contamination in the system. Addition should be CONTINUOUS and must be made at a point in the system where mixing will be rapid and thorough. Add product to the system in a location where contact time will be 30 minutes or greater before

reaching the outfall. TO USE AS A CO-TREATMENT WITH CHLORINE

TO USE AS A CO-TREATMENT WITH CHLORINE Add 0.08-0.3 ppm product by weight of water treated. Chlorination must result in a minimum detectable residual (i.e., greater than zero but less than the NPDES permit level), Addition must be CONTINUOUS and made at a point just after initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. Product must be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outfall.

Label language for product supplied in canisters for feeder device:

INDUSTRIAL WASTEWATER SYSTEMS

INDUSTRIAL WASTEWATER SYSTEMS
Wastewater Systems, Wastewater Studge and Wastewater Holding Tanks
Not registered for this use in the State of California – [Optional]
Label language for product supplied as powder in general packaging:
Label language for product supplied in water soluble packaging:
The product may be added to a wastewater system or studge at a convenient point of uniform mixing such as the digester

The product may be added to a wastewater system of studge at a convenience and 25-400 ppm by weight.

Label language for product supplied in canisters for feeder device:

Not applicable

CONSUMER, HOUSEHOLD & INSTITUTIONAL PROCESSES & PRODUCTS
Not registered for this use in the State of California – [Optional]
The product is not intended for use in personal care products.

PROCESS WATER CLEAN UP

PROCESS WATER CLEAN UP

Label language for product supplied as powder in general packaging:

To reduce microbial contamination in process water used to make consumer, household or institutional products, add product directly to the water at a concentration of 25-200 ppm by weight.

Label language for product supplied in water soluble packaging:

To reduce microbial contamination in process water used to make consumer, household or institutional products, add one bag per 600-4793 gal of process water.

Label language for product supplied in canisters for feeder device:

For control of microbial growth in process water used to make consumer, household or institutional products. Place product in feeder device to continuously dose system at a rate of 25-200 ppm per day of product to the water in the system depending on the severity of contamination.

RAW MATERIAL CLEAN UP

RAWMA LETIAL CLEAR UP:
Label language for product supplied as powder in general packaging:
To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add the product directly to the raw material at a concentration of 25 -200 ppm by weight.

product cirectly to the faw material at a concentration of x5 -2cut ppm by weight.

Label language for product supplied in water soluble packaging:

To reduce microbial contamination in raw materials used to make consumer, household or institutional products, add one bag of product directly to the raw material per 5,000-40,000 lbs of raw material.

Label language for product supplied in canisters for feeder device:

Not applicable

3

DIRECT PRODUCT ADDITION

Label language for product supplied as powder in general packaging:
To reduce microbial contamination in formulated products such as hard surface cleaners, laundry detergent, fabric softeners and other water based formulations, add 25 -50 ppm by product weight directly to the final product prior to

someners and other water based formulations, add 25 -50 ppm by product weight directly to the final product prior to packaging. Thorough mixing is recommended. Label language for product supplied in water soluble packaging:

To reduce microbial contamination in formulated products such as hard surface cleaners, laundry detergent, fabric softeners and other water based formulations, add one bag of product per 20,000 - 40,000 lbs of formulated product directly to the final product prior to packaging. Thorough mixing is recommended after addition and prior to packaging. Label language for product supplied in canisters for feeder device:

Not applicable

CONSUMER, HOUSEHOLD & INSTITUTIONAL RECYCLE WATER, RECYCLE PRODUCT CLEAN UP &

CONSUMER, HOUSEHOLD & INSTITUTIONAL RECIPLE VALES, 122.

RECYCLE WASTEWATER

Not registered for this use in the State of California – [Optional]

Label language for product supplied as powder in general packaging:
The product may be added to recycle process valete, a recycle product stream or added to a recycle waste water stream to recize microbial contamination. Add at a convenient point of uniform mibring. Add 25 to 200 ppm by weight.

Label language for product supplied in water soluble packaging:
The product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce interobial contamination. Add at a convenient point of uniform mixing. Add one bag per 600-4793 gal of water or

5.070 - 40,000 ins recycled product.
Label fanguage for product supplied in canisters for feeder device:
The product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Place product in feeder device to continuously dose system at a rate of 25-200 pm per day of product depending on the sevently of contamination. Place feeder device at a convenient point of uniform mixing.

INDUSTRIAL PROC Not registered for this Not registered for this This includes raw ma latex and resin emuts PROCESS WATER Label language for To reduce microbial water at a concentrati process water at a co Label language for Eorcontrol of microb continuously dose sy severity of contaminal RAW MATERIAL CL Label language for Lo reduce inicrobial raw material at a corv

Label language for Creduce microbial directly to the raw ma Label language for Not applicable DIRECT PRODUCT Label language for To clean up microbia directly to the final in Label language for To clean up microbia 40,000 lbs of final for packaging. Label language for

INDUSTRIAL RECY Not registered for this Label language for Product may be added to reduce microbial or Label language for Product may be adde to reduce microbial o water or 2,500 - 40,00 Label language for Product may be adde to reduce microbial of ppm product per day t

TANKSIDE ADDITIO TANKSIDE ADDITUDE ADD Label language for Not applicable

EQUIPMENT CLEA Not registered for this Label language for Label language for Product can be use equipment such as fouled solutions or ea the product, allow pro used for cleaning pu program at 10 to 20 hypochlorite first by sodium hypochlorite Label language for Not applicable

OIL FIELD APPLIC Label language for For reduction of bac rate of 6 to 54 ppm d Label language to For reduction of bar 2,231-20,000 gal of v Label language for For reduction of back to dose system at a contamination

HYDROTESTING Not registered for the Label language for For control of bacte depending on wate Label language for For control of bacte product. Add 1 bag | Label language fo Not applicable

INDUSTRIAL PROCESSES & PRODUCTS Not registered for this use in the State of California Not registered for this use in the State of California alifornia – [Optional]

This includes raw materials and/or products such as aqueous paints and coatings, polymers, slurries, adhesives, latex and resin emulsions and surfactants. PROCESS WATER CLEAN UP

orane system types (reverse

agents which are being

of any reducing agents avoid neutralization and

vater flow rate. Apply product is. The frequency of addition / fouled systems, a 20 ppm

lition should be at a rate of 1

ansfer of feed solution, re -s with the DBNPA solution.

is, ponds, estuaries, oceans e Elimination System Permit if the local sewer treatment

pending on the severity of

t in the system where mixing 30 minutes or greater before

or institutional products, add

nstitutional products, add one

institutional products. Place luct to the water in the system

nstitutional products, add the nstitutional products, add one

rs, laundry detergent, fabric y to the final product prior to

rs, laundry detergent, fabric IOD lbs of formulated product

recycle waste water stream to om by weight.

recycle waste water stream to

per 600-4793 gal of water or

ecycle waste water stream to

n at a rate of 25-200 ppm per

nt point of uniform mixing.

on and prior to packaging.

Label language for product supplied as powder in general packaging:
To reduce microbial contamination in process water used to make industrial products, add product directly to the

To reduce microbial contamination in process water used to make industrial products, add product directly to me water at a concentration of 25-400 ppm by weight.

Label language for product supplied in water soluble packaging:

To reduce microbial contamination in process water used to make industrial products, add product directly to the process water at a concentration of one bag per 2,500-40,000 lbs process water.

Label language for product supplied in canisters for feeder device:

[Install products growth in process water used to make industrial products.]

Place product in feeder device to continuously dose system at a rate of 25-400 ppm per day of product to the water in the system depending on the search of continuously.

reasy MALEMAL CLEAN UP
Label language for product supplied as powder in general packaging:
Loredus microbial contamination in the material cuert to make trousing products add the product directly to the raw material at a concentration of 25-400 ppm by weight
Label language for product supplied in water soluble packaging:
Loreduse microbial contamination in raw materials used to make industrial products, add one bag of product directly to the raw material per 5,000-40,000 lbs of raw material.

Label language for product supplied in canisters for feeder device:

DIRECT PRODUCT ADDITION

Label Impuge for product supplied as powder in general packaging:

To clean up microbial contamination in a final formulated industrial product, add 25 -100 ppm by weight product directly to the final industrial product pric to packaging.

Label language for product supplied in water soluble packaging:

To clean up microbial contamination in a final formulated industrial product, add one bag of product per 10,000-40,000 lbs of final formulated product. Addition should be directly to the final formulated industrial product prior to ackaging. abel language for product supplied in canisters for feeder device:

Not applicable

INDUSTRIAL RECYCLE WATER, RECYCLE PRODUCT CLEAN UP & RECYCLE WASTEWATER Not registered for this use in the State of California – [Optional] Label language for product supplied as powder in general packaging:

um detectable residual (i.e. and made at a point just after added at a location where

Label language for product supplied as power in general packaging:

Product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream
to reduce microbial contamination. Add at a convenient point of uniform mixing. Add 25 to 400 ppm by weight.

Label language for product supplied in water soluble packaging:

Product may be added to recycle process water, a recycle product stream or added to a recycle waste water stream
to reduce microbial contamination. Add at a convenient point of uniform mixing. Add one bag per 300 -4793 gal of
water or 25 Co. 40 DOU be mended product.

water or 2,500- 40,000 lbs recyded product.

Label language for product supplied in canisters for feeder device:

Product may be added to recyde process water, a recycle product stream or added to a recycle waste water stream to reduce microbial contamination. Place product in feeder device to continuously dose system at a rate of 25-400 ppm product per day to the water in the system depending upon the severity of contamination.

TANKSIDE ADDITION TO ELECTRODEPOSITION SYSTEMS mixing such as the digester.

TANKSIDE ADDITION TO ELECTRODEPOSITION SYSTEMS

Not registered for this use in the State of California – [Optional]

Label language for product supplied as powder in general packaging:

Product may be added as a tankside additive in recirculating electrodeposition systems and associated rinse systems to control microbial contamination. The product should be added into the recirculating rinse system, ultra filter permeate, or final distilled rinse system at a point to ensure uniform mixing. Add 25 – 400 ppm by weight.

Label language for product supplied in water soluble packaging:

Product may be added as a tankside additive in recirculating electrodeposition systems and associated rinse systems to control microbial contamination. The product should be added into the recirculating rinse system, ultra filter permeate, or final distilled rinse system at a point to ensure uniform mixing. Add one bag per 300 –4793 gal of electrodeposition fluid. electrodenosition fluid

Label language for product supplied in canisters for feeder device:

EQUIPMENT CLEANING

EQUIPMENT CLEANING

Not registered for this use in the State of California – [Optional]

Label language for product supplied as powder in general packaging:

Label language for product supplied in water soluble packaging:

Product can be used to control microorganisms present in solution or growing on the surfaces of process equipment such as reaction vessels, storage tanks and containers, piping and hoses. For standard cleaning of equipment, add 10 to 50 ppm by weight product in an aqueous solution, to process piping or equipment. Haveily foolded solutions or equipment may be treated with up to 400 ppm of product. After treating process equipment with the product, allow product solution to be in contact with surfaces for up to four hours. If sodium hypochlorite is being used for cleaning purposes at 50 to 250 ppm available chlorine, the product can be used as part of a dual treatment program at 10 to 20 ppm by weight, in combination with sodium hypochlorite. Treat process equipment with sodium hypochlorite first by following label directions. Follow this treatment with the product. Do not combine concentrated sodium hypochlorite first by following label directions. Follow this treatment with the product.

odium hypochlorite solution with the product. abel language for product supplied in canisters for feeder device:

OIL FIELD APPLICATIONS

Oil. FIELD APPLICATIONS

Label language for product supplied as powder in general packaging:

For reduction of bacterial contamination and degradation in oil recovery operations, add product to the system at a rate of 8 to 54 ppm depending on the severity of contamination.

Label language for product supplied in water soluble packaging:

For reduction of bacterial contamination and degradation in oil recovery operations, add one bag of product per

2,231-20,000 gal of water in the system depending on the severity of contamination.

Label language for product supplied in canisters for feeder device:

For reduction of bacterial contamination and degradation in oil recovery operations, place product in feeder device to dose system at a rate of 6-54 ppm per day of product to the water in the system depending on the severity of

PRODUCT CLEAN UP &

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

For control of bacteria, water used to hydrotest pipelines or vessels should contain 20 to 200 ppm of product depending on water quality and length of time the equipment will remain idle.

Label language for product supplied in water soluble packaging:

For control of bacteria, water used to hydrotest pipelines or vessels should contain between 20 and 200 pm, product. Add 1 bag per 600 –6000 gallons depending on water quality and length of time the equipment will remain

Label language for product supplied in canisters for feeder device:

FRACTURING FLUIDS

Not registered for this use in the State of California — [Optional] Not registered for this use in the State of California

Label language for product supplied as powder in general packaging:

The product reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. The product must be added to the water storage tanks before gelling and circulated to ensure mixing The product can be pre-dissolved in warm water and added at the well head for "on-the-fly" fracturing jobs. Use all pre-dissolved liquid within 24 hours.

Frequency and Dose: The product must be added at a rate of 18 to 54 ppm active (0.15-0.45 lbs. product/1,000 gallons water) depending on water quality. Retreat after 48 hours if the frac job is delayed.

Label language for product supplied in water soluble packaging:

The product reduces bacterial contamination and degradation of fracturing fluids and gels used in gill and gas well stimulations. The product must be added to the water storage tanks before gelling and circulated to ensure mixing. The product can be pre-dissolved in warm water and added at the well head for "on-the-fly " fracturing jobs. Use all pre -dissolved liquid within 24 hours.

Frequency and Dose: Add one bag of product for every 2,231-6,500 gal of water depending on water quality. Retreat after 48 hours if the frac job is delayed.

Label language for product supplied in canisters for feeder device:

Not applicable

ENHANCED OIL RECOVERY (EOR) FLUIDS

Not registered for this use in the State of California - [Optional]

Not registered for this use in the State of California Label language for product supplied as powder in general packaging.

The product reduces bacterial contamination and degradation of EOR polymers and gels. The product must be

added to injection water before polymer addition.

Frequency and Dose: The product must be added at a rate of 6 to 54 ppm. Dry product must be added at a point to ensure proper dissolution and mixing.

Label language for product supplied in water soluble packaging:

The product reduces bacterial contamination and degradation of EOR polymers and gels. The product should be added to injection water before polymer addition.

Frequency and Dose: Add one bag of product per 2,231-20,000 gal of water. Product should be added at a point to ure proper dissolution and mixing.

Label langur ge for product supplied in canisters for feeder device:

The product may be dosed using a feeder device to reduce bacterial contamination and degradation of EOR polymers and gets. The product must be added to injection water before polymer addition.

Place canister(s) in side stream feeder device. Canisters may be stacked in feeder device to achieve desired

dosing level. Use product in canisters to continuously dose system at a rate of 6 to 54 ppm depending on the severity of contamination. Badly fouled systems must be cleaned before treatment is begun. The feeding device should dose at a point to ensure proper dissolution and mixing.

WATER FLOOD

Not registered for this use in the State of California - [Optional]

Label language for product supplied as powder in general packaging:

The product can be used to control stime and corrosion causing bacteria in waters used for secondary oil and gas recovery. The product can be added as a dry product or pre-dissolved in warm water. Use all pre-dissolved liquid within 24 hours. If the system is heavily fouled, slug treat at the higher rate to remove biofilm. For maintenance, batch treat two to three times per week.

Frequency and Dose: The product must be added at a rate of 6 to 54 ppm. Dry product must be added at a point to ensure proper dissolution and mixing.

Label language for product supplied in water soluble packaging:

The product can be used to control slime and corrosion causing bacteria in waters used for secondary oil and gas recovery. The product can be added as a dry product or pre -dissolved in warm water. Use all pre -dissolved liquid within 24 hours. If the system is heavily fouled, slug treat at the higher rate to remove biofilm. For maintenance, batch treat two to three times per week.

Frequency and Dose: Add one bag of product per 2,231-20,000 gal of water. The product should be added at a point

to ensure proper dissolution and mixing.

Label language for product supplied in canisters for feeder device:

Not applicable

Produced For - When produced by a contract manufacturer



The Dow Chemical Company Midland, Michigan 48674 (989) 636-4400

^{® TM} Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

EPS.02 • 1/7/2013 • RA4971