

Material Safety Data Sheet



1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

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24-Hour Emergency Phone Number: 989-636-4400

Product: SUMP BUDDY* WT

Product Code: 63619

Effective Date: 08/22/03

Date Printed: 08/23/03

MSD: 002968

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient:		40%
2,2-Dibromo-3-nitrilopropionamide	CAS# 010222-01-2	
Inert ingredients:		60%
Hydroxypropyl		
methylcellulose	CAS# 009004-65-3	
Lactose	CAS# 000063-42-3	
Stearic acid	CAS# 000057-11-4	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

* Off-white solid. Mild, disinfectant odor. Causes severe eye burns. *
* Avoid temperatures above 158F, 70C. Highly toxic to fish and/or *
* aquatic organisms. May cause allergic skin reaction. *

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

SKIN: Prolonged or repeated exposure may cause skin irritation, even a burn. Skin contact may cause an allergic skin reaction. Prolonged skin contact is unlikely to result in absorption of harmful amounts.

INGESTION: Moderate toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not

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likely to cause injury; however, swallowing larger amounts may cause serious injury, even death.

INHALATION: Dust may cause irritation to upper respiratory tract (nose and throat). Exposure to dust from the tablets is however unlikely.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Excessive exposure may increase the blood and tissue levels of bromine. Observations in animals include kidney effects following repeated ingestion of active ingredient, but no evidence of systemic toxicity following repeated dermal exposure at maximum attainable doses. For the minor component(s): In humans, symptoms may include decreased blood clotting time.

CANCER INFORMATION: No relevant information found.

TERATOLOGY (BIRTH DEFECTS): For the active ingredient(s). Did not cause birth defects in laboratory animals. Has been toxic to the fetus in lab animals at doses toxic to the mother.

REPRODUCTIVE EFFECTS: Contains component(s) which did not interfere with reproduction in animal studies. The component(s) is/are DBNPA.

4. FIRST AID

EYE: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.

SKIN: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts, and watchbands.

INGESTION: 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 do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air; if effects occur, consult a

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physician.

NOTE TO PHYSICIAN: 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.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable.

METHOD USED: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABILITY LIMITS

LFL: Not applicable.

UFL: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds.

EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

FIRE FIGHTING INSTRUCTIONS: This material does not burn. Fight fire for other material that is burning.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves).

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Use appropriate safety equipment. For additional information, refer to "Exposure Controls/Personal Protection", MSDS Section 8. Avoid any contact.

PROTECT THE ENVIRONMENT: Contain material to prevent contamination of soil, surface water or ground water.

CLEANUP: Sweep up. Collect material in suitable and properly labeled open containers. Contact the Dow Chemical Company

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at 989-636-4400.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with dusts from head space of containers. Refer to "Exposure Controls/Personal Protection", Section 8, of the MSDS.

STORAGE: Store below 95F/35C. Storage must only be in original container. Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Use chemical goggles. Eye wash fountain should be located in immediate work area.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use chemically protective clothing resistant to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty or misty atmospheres, use an approved particulate respirator.

EXPOSURE GUIDELINES:

Dibromonitrilopropionamide: Dow IHG is 2 mg/m3 Ceiling.

Stearic acid: Dow IHG is 10 mg/m3.

Methocel: Dow IHG for cellulose ethers is 10 mg/m3.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Off-white solid.

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ODOR: Mild, disinfectant odor.
VAPOR PRESSURE: 4x10 (-5) mmHg @ 25C
VAPOR DENSITY: <1
BOILING POINT: Not applicable.
SOLUBILITY IN WATER/MISCIBILITY: Slowly soluble in more than
10 times its own volume.
SPECIFIC GRAVITY OR DENSITY: 1.3-1.4 g/cc

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions.
See storage section.

CONDITIONS TO AVOID: Avoid temperatures above 158F/70C.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with strong
bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Gases are released during
decomposition. Hazardous decomposition products may include
and are not limited to bromine (Br₂), cyanogen bromide, dibro-
moacetone nitrile, carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

SKIN: The LD₅₀ for skin absorption in rabbits is >2000 mg/kg.

INGESTION: The oral LD₅₀ for rats is 224 mg/kg.

MUTAGENICITY: In vitro mutagenicity studies were negative.
(active ingredient, DBNPA). No relevant information found.
(other ingredients).

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE:

MOVEMENT & PARTITIONING: Based on information for stearic acid.
Bioconcentration potential is low (BCF less than 100 or Log
Pow greater than 7). Based on information for remaining
components. Bioconcentration potential is low (BCF less than

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100 or Log Pow less than 3).

DEGRADATION & PERSISTENCE: Based on information for DBNPA. Chemical degradation (hydrolysis) is expected in the environment within minutes to hours. Degradation is expected in the soil environment within minutes to hours. Based on information for stearic acid and methylcellulose. Biodegradation may occur under aerobic conditions (in the presence of oxygen).

ECOTOXICITY: Based on information for DBNPA. Material is highly toxic to aquatic organisms on an acute basis (LC50 or EC50 between 0.1 and 1 mg/L in the most sensitive species tested). Material is practically non-toxic to birds on a dietary basis (LC50 greater than 5000 ppm). Based largely or completely on information for stearic acid. Material is practically non-toxic to fish on an acute basis (LC50 >100 mg/L.) Based largely or completely on information for methylcellulose. Not expected to be acutely toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred option is to contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. The preferred option in other jurisdictions is to contact the regulatory authority for this product for guidance.

As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone Dow's Customer Information Center at

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800-258-2436 or 989-832-1556 for further details.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): For D.O.T. regulatory information, if required, consult transportation regulations, product shipping papers or contact your Dow representative.

CANADIAN TDG INFORMATION: For TDG regulatory information, if required, consult transportation regulations, product shipping papers or contact your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

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SARA 313 INFORMATION: This product contains the following substances 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:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
DIBROMONITRILOPROPIONAMIDE	010222-01-2	40 %

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard

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REGULATORY INFORMATION (CONTINUED)

A delayed health hazard

STATE RIGHT-TO-KNOW: This product is not known to contain any
substances subject to the disclosure requirements of

New Jersey
Pennsylvania

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard
Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT
(CERCLA, or SUPERFUND):

To the best of our knowledge, this product contains no chemical subject
to reporting under CERCLA.

CANADIAN REGULATIONS

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WHMIS INFORMATION: The Canadian Workplace Hazardous Materials
Information System (WHMIS) Classification for this product is:

This product is exempt under WHMIS.
PEST CONTROL PRODUCTS ACT (CANADA)

This product is registered under the Pest Control Products Act.

16. OTHER INFORMATION

EPA Registration Number 464-624

REVISION INDICATOR: Revised Section 15, added Canadian regulatory
information.

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The Information Herein Is Given In Good Faith, But No Warranty,
Express Or Implied, Is Made. Consult The Dow Chemical Company
For Further Information.