

1. IDENTIFICATION

Product ID: DD012
 Product Name: Dr. Drain
 Other Names: Bacterial/Enzyme Complex Mixture Water Soluble
 Supplier: ARC Products, Inc
 1110 Keystone Ave
 Catoosa, OK 74015
 USA
 Telephone: 1-855-552-6789
 Fax: 918-266-6796
 CHEMTREC: 1-800-424-9300

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product contains bacterial spores and enzymes. May cause eye irritation. Avoid contact with eyes and breathing dusts. People with known allergies, particularly to enzymes, as well as those with respiratory disease or disorders, should avoid contact with this product. Wash hands thoroughly after use.

KEEP OUT OF REACH OF CHILDREN

GHS CLASSIFICATION

Irritant (Eye)
 Irritant (Skin)
 Respiratory Tract Irritant

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM



SIGNAL WORD: Warning

HAZARD STATEMENT(S) (3)

H316 Causes mild skin irritation
 H320 Causes eye irritation
 H335 May cause respiratory irritation

PRECAUTIONARY STATEMENT(S) (6)

P281 Use personal protective equipment as required
 P301+330+331 IF SWALLOWED, Rinse mouth. Do NOT induce vomiting
 P305+351+338 IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P330 Rinse mouth
 P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P352 Wash with soap and water

HMIS CLASSIFICATION

Health Hazard: 2
 Chronic Health Hazard: Not Available
 Flammability: 0
 Physical Hazards: 0

NFPA CLASSIFICATION

Health Hazard: 2

Fire: 0
 Reactivity Hazard: 0
 Special Hazard: Not Available

3. COMPOSITION/INFORMATION ON INGREDIENTS

SYNONYMS: Bacterial/Enzyme Complex Mixture Water Soluble

FORMULA:

MOLECULAR WEIGHT: Not Available

Component	CAS Number	EC Number	Concentration	TLV
Calcium Carbonate	471-34-1		>50	
Calcium Sulfate	7778-18-9		>30	
Sodium Bicarbonate	144-55-8		>10	
Sodium Chloride	7647-14-5		>5	
Calcium Chloride	10043-52-4		<5	
Alpha Amylase	9000-90-2		<5	
Bacterial Protease	9014-01-1		<5	
Cellulase	9012-54-8		<5	

4. FIRST AID MEASURES

GENERAL ADVICE

Consult a physician. Show this safety data sheet to the doctor in attendance. Physician should treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Move out of dangerous area.

IF INHALED

Remove to fresh air; if difficulty breathing or discomfort occurs and persists, seek medical attention.

IN CASE OF SKIN CONTACT

Wash skin with soap and water; remove contaminated clothes and wash. If irritation persists, seek medical attention.

IN CASE OF EYE CONTACT

Immediately flush with water for at least 15 minutes while lifting the upper and lower eyelids intermittently to effectively flush the entire eye surface. Seek medical help as necessary if irritation persists.

IN SWALLOWED

Rinse mouth with water; dilute by giving 1-2 glasses of water; do not induce vomiting. Never give anything by mouth to an unconscious person; seek medical help immediately.

5. FIREFIGHTING MEASURES

CONDITIONS OF FLAMMABILITY

Not Available

SUITABLE EXTINGUISHING MEDIA

Use Dry Chemical, CO₂, or Chemical Foam

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Full protective clothing and NIOSH-approved self-contained breathing apparatus should be worn. Use water to cool exposed containers.

SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE

HAZARDOUS COMBUSTION PRODUCTS

May include and are not limited to: oxides of carbon.

FURTHER INFORMATION

None Available

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear suitable clothing and protective equipment. Ensure adequate ventilation

ENVIRONMENTAL PRECAUTIONS

None

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Prevent large quantities from contacting vegetation or waterways; large spills could kill vegetation and fish. This product, if spilled, can be recovered and reused if contamination does not present a problem; Vacuum or sweep material. If the spilled product is unusable due to contamination, consult state or local agencies for acceptable disposal procedures.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Use air conveying / mechanical systems for bulk transfer to storage; For manual handling or bulk transfer use mechanical ventilation to remove airborne dust from rail car, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on dust cloud generation. Keep material out of lakes, streams, ponds and sewer drains.

CONDITIONS FOR SAFE STORAGE

Keep out of reach of children. Store in cool dry area away from acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Component	CAS Number	Value	Control Parameters Basis	Remarks
Calcium Carbonate	471-34-1	TWA	15 mg/m ³	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Calcium Sulfate	7778-18-9	TWA	10 mg/m ³	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Protease Enzymes	9014-01-1			ACGIH-TLV Not established OSHA-PEL Not established
Cellulase Enzymes	9012-54-8			Inhalation: 30900 mg/kg mouse
Amylase Enzymes	9000-90-2			Inhalation: 7500 mg/kg rat

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

Whenever dust in the workers breathing zone cannot be controlled with ventilation or engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EU, CEN or comparable certification organization to protect against airborne dust.

HAND PROTECTION

Avoid contact with skin. For sensitive skin or prolonged use, wear rubber gloves. Emergency responders should wear impermeable gloves

EYE PROTECTION

Appropriate eye and face protective equipment (ANSI Z87 approved) should be selected for the particular use intended for this material; Safety glasses with side shields are recommended. Emergency responders should wear full eye and face protection.

SKIN AND BODY PROTECTION

Dry product is generally non- irritating to intact skin; However, this product can be irritating where skin has been

damaged or can create skin irritation after long exposures when moisture is present on the skin; Under such conditions, gloves and long sleeved clothing are recommended to minimize skin contact.

HYGIENE MEASURES

Wash hands after handling, as well as any other affected skin areas. Avoid contact with food or food preparatory surfaces. If this occurs wash the area thoroughly with suitable detergent and water. Remove and wash contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE**

Form: Solid, Powdered Dry Granules
Color: White

SAFETY DATA

pH: Not Available
Melting Point: Not Available
Boiling Point: Decomposes
Flashpoint: Not Available
Ignition Temperature: Not Available
Auto-ignition Temperature: No Data Available
Lower Explosion Limit: Not Available
Upper Explosion Limit: Not Available
Vapor Pressure: No Data Available
Density: Not Available
Water Solubility: 99%
Partition Coefficient(n-octanol/water): No Data Available
Relative Vapor Density: No Data Available
Odor: odorless
Odor Threshold: No Data Available
Evaporation Rate: No Data Available
Active Oxygen: Not Applicable

10. STABILITY AND REACTIVITY**CHEMICAL STABILITY**

Stable

POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous polymerization does not occur.

CONDITIONS TO AVOID

Excessive heat and contamination of any kind. Contact with acids except under controlled conditions.

MATERIALS TO AVOID

Reacts with acids to create large volumes of carbon dioxide gas and heat. Avoid aluminum powder, acids, fluorine and molten lithium

HAZARDOUS DECOMPOSITION PRODUCTS

Heated to decomposition, it will emit fumes of sodium oxide

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY****Oral LD50**

Not determined

Inhalation LC50

A-Amylase - 7500 mg/kg rat

Cellulase - 30900 mg/kg mouse

Dermal LD50

Not determined

Other Information on Acute Toxicity

None Available

SKIN CORROSION/IRRITATION

Non-irritating to intact skin; minor irritation may occur on abraded skin.

SERIOUS EYE DAMAGE/EYE IRRITATION

Not determined

RESPIRATORY OR SKIN SENSITIZATION

Not determined

GERM CELL MUTAGENICITY

Not determined

CARCINOGENICITY**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

REPRODUCTIVE TOXICITY

Not Determined

TERATOGENICITY

Not Determined

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE(GLOBALLY HARMONIZED SYSTEM)

Not Determined

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE(GLOBALLY HARMONIZED SYSTEM)

Not Determined

ASPIRATION HAZARD

Not determined

SIGNS AND SYMPTOMS OF EXPOSURE

Dust may be irritatin to the skin, mucous membranes, and upper respiratory tract; No significant acute toxicological effects expected.

SYNERGISTIC EFFECTS

Not determined

ADDITIONAL INFORMATION

None

12. ECOLOGICAL INFORMATION

TOXICITY

Not Available

PERSISTANCE AND DEGRADABILITY

Not Available

BIOACCUMULATIVE POTENTIAL

Not Available

MOBILITY IN SOIL

Not Available

PBT AND vPvB ASSESSMENT

Not Available

OTHER ADVERSE EFFECTS

Not Available

13. DISPOSAL CONSIDERATIONS**PRODUCT**

As a nonhazardous waste the material may be disposed of in a landfill in accordance with local government regulations; check with local and state authorities for applicable requirements prior to disposal. Under federal regulations, it the generator's responsibility to determine if a waste is a hazardous waste.

CONTAMINATED PACKAGING

As a nonhazardous waste the material may be disposed of in a landfill in accordance with local government regulations; check with local and state authorities for applicable requirements prior to disposal. Under federal regulations, it the generator's responsibility to determine if a waste is a hazardous waste.

14. TRANSPORT INFORMATION**DOT(US)**

Regulated:	No
UN Number:	Not Regulated
Class:	Not Regulated
Packing Group:	
Subrisk:	
Proper Shipping Name:	Not Regulated
Reportable Quantity(RQ):	Not Regulated
Marine Pollutant:	Not Regulated
Poison Inhalation Hazard:	Not Regulated
Hazard Label:	

IMDG

UN Number:	Not Regulated
Class:	Not Regulated
Proper Shipping Name:	Not Regulated
EMS-No:	Not Regulated
Marine Pollutant:	Not Regulated

IATA

UN Number:	Not Regulated
Class:	Not Regulated
Proper Shipping Name:	Not Regulated

COMMENTS

Not Regulated

15. REGULATORY INFORMATION**OSHA HAZARDS**

This product contains bacterial spores and enzymes. May cause eye irritation. Avoid contact with eyes and breathing dusts. People with known allergies, particularly to enzymes, as well as those with respiratory disease or disorders, should avoid contact with this product. Wash hands thoroughly after use.

KEEP OUT OF REACH OF CHILDREN

SARA 302 COMPONENTS

Not Available

SARA 313 COMPONENTS

Not Available

SARA 311/312 HAZARDS

Not Available

ADDITIONAL INFORMATION

CERCLA: NOT LISTED

TSCA: NOT LISTED

RCRA: NOT LISTED

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

No components are subject to the Pennsylvania Right to Know Act.

NEW JERSEY RIGHT TO KNOW COMPONENTS

No components are subject to the New Jersey Right to Know Act.

CALIFORNIA PROP. 65 COMPONENTS

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

The information in this document is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use or improper storage or handling. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of their suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of the employees and customers.