



SAFETY DATA SHEET

BIO-PERC® BIOLOGICAL REMEDIATION TABLETS

EMERGENCY TELEPHONE: (800) 424-9300

DATE PREPARED: JANUARY 2015

I. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Bio-Perc®
CHEMICAL NAME	Bacterial Formulation
CHEMICAL ABSTRACT SERVICE NO.	Not Applicable
CHEMICAL FAMILY	Not Applicable
FORMULA	Compound Product
SUPPLIER	Norweco, Inc. 220 Republic St. Norwalk, OH USA 44857
EMERGENCY TELEPHONE NUMBER	(800) 424-9300
TECHNICAL PHONE NUMBER	(800) NORWECO, (800) 667-9326

II. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW	May cause allergic reactions in sensitive individuals. Avoid prolonged contact. Contact with lime dust and moisture will produce Sodium Hydroxide, which is toxic, corrosive and hazardous. May cause irritation to eyes, skin and respiratory system on contact. Ingestion may irritate gastrointestinal tract. Wash hands thoroughly after handling. Do not mix with other chemicals.
POTENTIAL ACUTE HEALTH EFFECTS	
INHALATION	Inhalation of product dust or solution may cause respiratory tract irritation.
INGESTION	Ingestion may irritate gastrointestinal tract. Toxic if taken in large doses.
SKIN	Product dust or solution may result in skin irritation upon prolonged contact.
EYES	Dust or solution may burn eyes on contact.
OVER EXPOSURE SIGNS/SYMPTOMS	
INHALATION	Adverse symptoms may include the following: nose, throat and respiratory tract irritation
INGESTION	Adverse symptoms may include the following: gastrointestinal tract irritation
SKIN	Adverse symptoms may include the following: irritation
EYES	Adverse symptoms may include the following: irritation
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE	Not available

III. CONSUMPTION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	None
NON-HAZARDOUS INGREDIENTS	Visible non-pathogenic bacterial cultures, dissolve rate stabilizers.

THERE ARE NO ADDITIONAL INGREDIENTS PRESENT, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE THAT ARE CLASSIFIED AS HAZARDOUS TO HEALTH OR THE ENVIRONMENT AND HENCE REQUIRE REPORTING IN THIS SECTION.

IV. FIRST AID PROCEDURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

EYE CONTACT	Immediately flush with large amounts of water for fifteen (15) minutes, rinsing thoroughly. Get medical attention.
SKIN CONTACT	Wash with plenty of soap and water for fifteen (15) minutes. Remove contaminated clothing. If skin irritation occurs, get medical attention. Wash clothing before reuse.
INHALATION	Remove to fresh air. If not breathing, resuscitate and administer oxygen if readily available. Seek medical attention immediately.
INGESTION	If <u>conscious</u> , drink large quantities of water or milk and induce vomiting. Call a physician immediately. Avoid alcohol. If <u>unconscious</u> , or in convulsions, seek medical attention immediately. Do not induce vomiting or give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.

V. FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT	Not applicable
EXTINGUISHING MEDIA	
SUITABLE	Use extinguishing media appropriate for burning material. Compatible with water, fog, spray foam or CO ₂ .
NOT SUITABLE	Not applicable
SPECIAL EXPOSURE HAZARDS	Not available
HAZARDOUS COMBUSTION PRODUCTS	Inert ingredients could support combustion by burning, yielding carbon dioxide and water.
SPECIAL FIREFIGHTING PROCEDURES	NIOSH - Approved, positive pressure, self-contained breathing apparatus with full face piece.

VI. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear appropriate personal protective equipment if required.
ENVIRONMENTAL PRECAUTIONS	Not Applicable
LARGE SPILL	Spills exceeding 100 pounds should be reported to the local authorities.
SMALL SPILL	Contain all spilled material, wearing appropriate protective equipment. Place spilled material in clean, dry containers for disposal. Do not flush to surface water.
REFERENCE TO OTHER SECTIONS	See Section I for emergency contact information. See Section VIII for information on appropriate personal protective equipment. See Section XIII for additional waste treatment information.

VII. HANDLING AND STORAGE

HANDLING	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Use caution in handling spilled material. Put on appropriate personal protective equipment (see Section VIII). Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container with the lid securely closed. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
STORAGE	Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly closed and protect them from physical damage. Protect from direct light and minimize contact with air. Keep material dry. Keep away from oxidizers, acids and other chemicals. Do not reuse or refill empty containers. Offer to recycling if available or place in trash collection. Do not contaminate food or feed by storage or disposal of this product.

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VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS

RECOMMENDED MONITORING PROCEDURES Per OSHA no permissible exposure limits have been established.
 ENGINEERING MEASURES Use adequate general or local exhaust ventilation to keep fume and/or dust level as low as possible.
 HYGIENE MEASURES Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTION

EYES Safety glasses
 HANDS Gloves should be worn
 GLOVES Natural or synthetic rubber
 RESPIRATORY If dusty conditions are encountered, use NIOSH approved respirator with acid gas cartridge and dust pre-filter.
 SKIN Boots, aprons or chemical suits as required to prevent skin contact.
 ENVIRONMENTAL EXPOSURE CONTROLS Not applicable

IX. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid	DENSITY (lbs/gal)	125 lbs./ft ³
FLASH POINT	Not applicable	VAPOR PRESSURE	Not available
DECOMPOSITION TEMPERATURE	200° C	VAPOR DENSITY	Not available
MATERIAL SUPPORTS COMBUSTION	Not applicable	VOLATILITY	Not applicable
COLOR	Bronze tablet	EVAPORATION RATE	Not available
ODOR	Mild odor	VISCOSITY	Not applicable
pH	Alkaline	SOLUBILITY	15% @ 20°C
BOILING/CONDENSATION POINT	760 mm Hg	WATER SOLUBILITY AT ROOM TEMPERATURE	Not available
MELTING/FREEZING POINT	Not available	PARTITION COEFFICIENT NOCTANOL/WATER	Not available
SPECIFIC GRAVITY	2.00 (H ₂ O=1)	% SOLID (W/W)	Not available

X. STABILITY AND REACTIVITY

STABILITY Stable
 CONDITIONS TO AVOID Exposure to light, air, moisture and high temperatures
 MATERIALS TO AVOID Not available
 HAZARDOUS COMBUSTION PRODUCTS Not available
 POSSIBILITY OF HAZARDOUS REACTIONS Not applicable

XI. TOXICOLOGICAL INFORMATION

PERMISSIBLE No permissible exposure limits have been established by OSHA.
 ACUTE
 INHALATION Inhalation of product dust or solution may cause respiratory tract irritation.
 EYE/SKIN Excessive contact may cause skin irritation. Eye contact may cause irritation.
 INGESTION Ingestion of small amounts is not likely to produce harmful effects. Chronic ingestion of large quantities may cause gastrointestinal effects including nausea, diarrhea, urine acidification, oxalate and uric crystallization in the bladder and kidneys, decreased reaction times, psycho-motor coordination.
 CHRONIC Chronic ingestion of large quantities may cause gastrointestinal effects including nausea, diarrhea, urine acidification, oxalate and uric crystallization in the bladder and kidneys, decreased reaction times, psycho-motor coordination.

XII. ECOLOGICAL INFORMATION

ECOLOGICAL TOXICITY VALUES No information available
 ENVIRONMENTAL EFFECTS Not applicable
 BIODEGRADABILITY Not applicable

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL Not rated a hazardous substance by USEPA. Collected material can be dissolved in water, exercising caution. Dissolved material may be discharged into an appropriate industrial waste collection system but consult local, state and federal regulating agencies before disposing of any material. Contact with acids will release carbon dioxide gas. Material mixed with lime dust and water will produce corrosive Sodium Hydroxide (caustic soda).

XIV. TRANSPORTATION INFORMATION

IDENTIFICATION NUMBER	NM20400	I.M.O. DESCRIPTION	Non-Hazardous
PACKING GROUP	Not applicable	U.S. DOT SHIPPING NAME	Non-Hazardous Tablets
REPORTABLE QUANTITY	Not applicable	U.S. DOT HAZARD CLASS	Non-Hazardous
HMIS/NFPA RATING	Not applicable		

XV. REGULATORY INFORMATION

USEPA Non-hazardous
 RCRA Non-hazardous
 CERCLA HAZARDOUS SUBSTANCE No
 SARA TITLE III Non-hazardous

XVI. OTHER INFORMATION

OTHER SPECIAL Not applicable
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