

# MATERIAL SAFETY DATA SHEET

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FOR EMERGENCY CALL CHEMTREC – DAY OR NIGHT 800-424-9300 or OUTSIDE USA 202-483-7616

## PRODUCT IDENTIFICATION

**Material Name:** Microbe-Lift Maximum Clarity Plus (Part 1)  
**Brand Name:** Baking Soda  
**Chemical Name:** Sodium Bicarbonate  
**Common Name:** Sodium Bicarbonate  
**Formula:** NaHCO<sub>3</sub>  
**CAS Number:** 144-55-8 (of NAHCO<sub>3</sub>)

## PHYSICAL AND CHEMICAL PROPERTIES

**State:** Granular Solid  
**Melting Point C:** Loses CO<sub>2</sub> at 270 C  
**Boiling Point C:** Decomposes  
**Color:** White  
**Odor:** None  
**Bulk Density, lb/cubic ft.:** 60  
**Weight per gallon:** Not applicable  
**Specific Gravity @ 20 C:** 2.16  
**Water Solubility, % by wt. @20 C:** 8.8  
**Flash Point and Method:** Not applicable  
**pH:** Not applicable

## HAZARDOUS INGREDIENTS

**Hazard:** Mild irritant to eyes and skin

## PHYSICAL HAZARD INFORMATION

**EXPLOSIVE:** NO  
**PYROPHORIC:** NO  
**FLAMMABLE:** NO  
**COMBUSTIBLE:** NO  
**OXIDIZER:** NO  
**REACTIVITY:** Normally stable in dry air, In moist air, forms sodium carbonate, an irritant.  
**INCOMPATIBILITIES:** Keep away from acids, aluminum, and phosphorous pentoxide.  
**HAZARDOUS:** Decomposes when exposed to high heat, releasing carbon dioxide. Carbon dioxide gas is an esphyxiant and may affect respiration rate.  
**CONDITIONS TO AVOID:** Exposure to incompatible materials and heart.

## HEALTH INFORMATION

**PRECAUTIONARY INFORMATION:** This product is a mild irritant to eyes and skin.

**Symptoms of Exposure:** Irritation or redness of the eyes and skin.

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## PRODUCT IDENTIFICATION

**Material Name:** Microbe-Lift Maximum Clarity Plus (Part 2)

## HAZARDOUS INGREDIENTS

**Bacterial Cultures:** less than 1% by weight.  
Blend of naturally occurring ingredients as a carrier including, corn and wheat bran. 70%  
**Hazardous ingredient:** Sodium Bicarbonate  
**% Concentrate:** 30  
**Classification:** n/a  
**Exposure:** n/a  
**CAS:** 144-55-8  
**EINECS:** 205-633-8

## HAZARDOUS IDENTIFICATION

**Classification:** Bacterial culture non pathogenic

## FIRST AID MEASURES

Immediate medical attention is required in case of exposure by inhalation, contact with skin or eyes, or if swallowed.

<b>Exposure</b>	<b>Symptom</b>	<b>Treatment</b>
Inhalation	Same as exposure to dust. May cause respiratory tract irritation.	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.
Skin Contact	Redness and irritation	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of skin are damaged or if irritation persists seek medical attention.
Eye Contact	Same as dust	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention. Ingestion
Ingestion	Irritation of gastrointestinal tract, nausea, diarrhea	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention.

Immediate Treatment / Antidote: symptomatic treatment

Delayed Effects: bacterial infection



**Evaporation rate** Not applicable  
**Conductivity** Not applicable

### STABILITY & REACTIVITY

**Stability:** Stable under normal storage and handling conditions.  
**Conditions to avoid:** Accumulations of product in enclosed spaces, generation of dust, and excess heat.  
**Materials to avoid:** Acids and Alkalies may inactivate the bacterial cultures.  
**Hazardous decomposition products:** oxides of carbon

### TOXICOLOGICAL INFORMATION

**Toxological effects:** Low acute oral toxicity although ingestion will cause irritation of thegastrointestinal tract and may result in nausea and diarrhea. May cause mild mechanical irritation to eyes, skin, and mucous membranes. May cause irritation from allergic reaction, especially to people that have a history or allergic reaction.

### ECOLOGICAL INFORMATION

**Environmental Effects:** Minimal impact under normal conditions of use and storage. The bacterial cultures are naturally occurring soil type organism. The carriers are naturally occurring materials.  
**Mobility:** disperses in water  
**Degradability:** contents are biodegradable  
**Bioaccumulative potential:** Not known

### DISPOSAL CONSIDERATIONS

**Substance:** Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.  
**Container:** As substance.

### TRANSPORT INFORMATION (Not regulated for transport)

**Proper shipping name:** Waste water treatment compounds, bacterial culture.

### REGULATORY INFORMATION

**Label Name** Microbe-Lift Maximum Clarity  
**Symbols** no risk or safety phrases stipulated  
**Risk Phrases** no risk or safety phrases stipulated  
**Safety Phrases** no risk or safety phrases stipulated  
**E.C. No**

**Additional labeling:**

Use of this material may be governed by the following regulations: (users are advised to consult these regulations for further information.)

**Legal Disclaimer:**

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## MATERIAL SAFETY DATA SHEET

### I. IDENTIFICATION

TRADE NAME: MICROBE-LIFT/ Maximum Clarity Plus (Part 3)

CHEMICAL FAMILY: Cereal Straw/Organic Dark Peat  
CHEMICAL FORMULA: Barley Straw and Peat  
CAS NUMBER: N/A

### II. PHYSICAL DATA

BOILING POINT (F): N/A  
FREEZING POINT (F): N/A  
pH: Neutral  
VAPOR PRESSURE (mm hg): N/A  
SPECIFIC GRAVITY (WATER): < 1  
WATER SOLUBILITY: Very low  
APPEARANCE/ODOR: Brown pellet/earth odor

### III. HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS: None  
DRY MATERIAL: 92%  
WATER: 8%  
NFPA/HMIS: Health 0 Reactivity 0 Fire 1 Specific Hazard 0

### IV. FIRE AND EXPLOSION HAZARDS

FLASH POINT: > 500 degrees F (open cup method)  
LOWER FLAME LIMIT: N/A  
HIGHER FLAME LIMIT: N/A  
EXTINGUISHING MEDIA: Water fog or spray, foam, dry powder, carbon dioxide CO2  
UNUSUAL FIRE HAZARD: None known

### V. REACTIVITY DATA

CHEMICAL STABILITY: Stable  
CONDITIONS TO AVOID: None known  
INCOMPATIBLE MATERIALS: Oxidizers or oxidizer materials  
Avoid prolonged exposure to highly concentrated acids or bases  
DECOMPOSITION PRODUCTS: From fire, smoke, carbon dioxide and carbon monoxide  
POLYMERIZATION AVOID: None  
HAZARDOUS POLYMERIZATION: Will not occur

### VI. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: None established for this product  
ROUTES OF ENTRY:  
INHALATION: Irritant  
SKIN: Not likely  
INGESTION: Irritant  
HEALTH HAZARDS: Irritating to eyes  
CARCINOGENICITY NTP: No  
IRAC MONOGRAPHS: No  
OSHA REGULATED: No  
OVER EXPOSURE EFFECTS: Eye irritation with contact. No other known overexposure effects  
FIRST AID PROCEDURES: In case of eye contact, flush immediately with plenty of water for at least 15 minutes; get medical attention if irritation persists; for skin, rinse with water. If affected by inhalation of dust particles, remove to fresh air. Give oxygen or artificial respiration as needed. If swallowed, do not induce vomiting, drink several glasses of milk or water, and get medical attention.

## **VII. ENVIRONMENTAL PROTECTION**

### **SPILL OR LEAK PROCEDURE WASTE DISPOSAL METHOD**

In case of spillage, sweep up and place in suitable container  
Follow state regulations

## **VIII. SPECIAL PROTECTION**

### **RESPIRATORY PROTECTION:**

Not normally needed for this product. Use NIOSH approved dust mask if needed

### **VENTILATION:**

Local exhaust

### **MECHANICAL EXHAUST:**

Use if needed

### **LOCAL EXHAUST:**

Recommended

### **PROTECTIVE GLOVES:**

Not normally needed. Use to protect pre-existing skin conditions

### **EYE PROTECTION:**

Use safety glasses or face shield if needed

### **OTHER PROTECTIVE EQUIPMENT:**

HMIS Personal protection; safety glasses

## **IX. SPECIAL HANDLING**

### **HANDLING AND STORAGE:**

Store away from oxidizers or materials bearing a yellow "DOT" label

### **PRECAUTIONARY MEASURES:**

Provide fresh air ventilation during handling of this product, wash hands before eating, drinking or smoking. If needed, take first aid action shown in Section V (Health Hazard Data)

### **HAZARD CLASS:**

Non-regulated

### **DOT SHIPPING NAME:**

DOT non-regulated

### **REPORTABLE QUANTITY (RQ):**

None

### **UN NUMBER:**

None

### **NA #:**

None

## **X. SUPPLEMENTAL INFORMATION**

**DISCLAIMER:** The information contained in all printed material is provided without warranty of any kind, express or implied. Information is provided solely for consideration, investigation, and verification by the recipients; users should consider this information only as a supplement to other information gathered by or made available to them. Users should make independent determinations of the suitability and completeness of all information from all sources to assure proper use and disposal of these materials to the safety and health of personnel and the environment, and for full regulatory compliance. The hazard information contained in the Material Safety Data Sheet ("MSDS") and elsewhere is not a substitute for risk assessment under actual conditions of use. Users have the responsibility to be and keep currently informed on chemical hazard information, to design and update their own programs, and to comply with all applicable international, federal, state and local laws and regulations regarding safety, occupational health, right to know, environmental protection, and any other related legislation.

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**Restrictive Medical Conditions:** Eye or skin disease and breathing or respiratory disorder will be aggravated by exposure to this chemical.

### **PRIMARY ROUTE(S) OR ENTRY**

Eye and skin contact, inhalation (breathing), and ingestion (swallowing).

### **TOXICITY INFORMATION**

Oral – rat LD50 4220 mg/kg; Oral – Infant LDLo 1260 mg/kg; Skin irritation – rabbit 30 mg/3 days, mild.

### **EXPOSURE LIMITS**

**OSHA:** Not established  
**ACGIH:** Not established  
**Other:** ACGIH: TLV-TWA for nuisance dust is 10 mg/m<sup>3</sup> total dust for 5 mg/m<sup>3</sup> respirable dust.

Not reported as a Carcinogen or Potential Carcinogen

### **PRECAUTIONS FOR SAFE HANDLING AND USE**

Avoid contact with eyes, skin, and clothing.  
Avoid breathing dust.  
Avoid contact with acids.  
Store in a cool, dry area.  
Wash thoroughly after handling.

### **SPILL AND LEAK PROCEDURES**

**Soil Release:** Shovel and sweep up. Dispose of in accordance with federal, state and local regulations.

**Water Spill:** Dilute and disperse with water jets, propellers or similar agitation techniques.

**Air Spill:** Keep unwind. Treat impact site as appropriate for soil or water spill.

**Occupational:** Shovel and sweep up and place in a container for disposal.

**RCRA Waste:  
Number** Not applicable

### **ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**

**Ventilation:** Use general dilution and local exhaust ventilation techniques to meet nuisance dust exposure limit.

**Respirator:** Use NIOSH/MSHA approved dust type respirator.

**Eye Protection:** No special requirements.

**Gloves:** No special requirements.

**Clothing:** Good hygiene practices.

## **EMERGENCY PROCEDURES**

**Fire:** This product is not flammable and does not support combustion.

**Spill or Leak:** Sweep up and shovel into containers for later disposal.

## **FIRST AID PROCEDURES**

**Ingestion:** If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

**Skin Contact:** Flush with plenty of water. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**Note to Physician:** The chemical of exposure is sodium bicarbonate with has a pH of 8.