

Production date: 03.02.2012
Trade name: Buffer Protect

I. PRODUCT INFORMATION

TRADE NAME: Buffer Protect
MANUFACTURER: bio-ferm GmbH, Technopark 1B, 3430 Austria
DISTRIBUTOR: Westbridge Agricultural Products, 12160 Avenida Chelsea, Vista, California 92081, USA

POISON CONTROL

TELEPHONE: 1(800)222-1222
COMPOSITION: Citric Acid; Disodium phosphate
ADVISED USE: As a buffering agent to be tank-mixed with Blossom Protect

II. HAZARDOUS INGREDIENTS

COMPOUND	%	CAS No.	EEINECS No.	OSHA PEL	ACGIH	NIOSH
Citric Acid	42.7%	77-92-9	201-069-1	N/A	N/A	N/A
Disodium phosphate	22.7%	7558-79-4	231-448-7	N/A	N/A	N/A

III. FIRST AID INFORMATION

Classification of Mixture: complies with the actual legally binding EU Directives and is supplemented by company and literature data.



Xi Irritant

HMIS RATINGS: Health Hazard: 2* Fire Hazard: 0 Physical Hazard: 0

EMERGENCY AND FIRST AID PROCEDURES

GENERAL INFORMATION: Remove from source of danger area. Call local poison control or doctor for advice.

EYES: Flush with water for 15-20 minutes and seek medical advice.

SKIN: Remove contaminated clothes, and wash with soap and water for 15-20 minutes.

INHALATION: Supply fresh air, and seek medical treatment in case of continued irritation.

INGESTION: Call local poison control or doctor for advice.

SUSPECTED CANCER AGENT?

X NO: Federal OSHA, NTP, IARC, Cal/OSHA

NOTES TO PHYSICIAN: Probable mucosal damage may contradict the use of gastric lavage.

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III. PHYSICAL DATA

BOILING POINT, 760 MM HG: Not applicable
MELTING POINT: Not applicable
FLASH POINT: Not applicable
IGNITION TEMPERATURE: Non-flammable (EECA1)
SOLUBILITY IN 20°C H₂O: Soluble
EXPLOSION DANGER: Not an explosion hazard. (EECA.14) However, formation of dust-air mixtures can lead to dust explosion hazard under certain circumstances.
APPEARANCE AND ODOR: White, crystalline powder with no odor.

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A
AUTOIGNITION TEMPERATURE: N/A
EXTINGUISHING MEDIA: CO₂, dry chemical powder, foam or water
SPECIAL FIRE FIGHTING PROCEDURES: Non recorded
UNUSUAL FIRE AND EXPLOSION HAZARD: Not applicable
FIRE-FIGHTER PROTECTIVE CLOTHING: Use protective clothing suitable to the situation.

V. REACTIVITY DATA

STABILITY: Product stable at room temperature for at least two years.
REACTIVITY: No dangerous reactions are known if used according to specifications.
INCOMPATIBILITY (materials to avoid): Strong bases, oxidizing agents, metals, acetates, metal nitrates, sulfides, and potassium tartrate.
HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS: None known under normal storage conditions.
CONDITIONS TO AVOID: Keep away from heat and humidity.

VI. TOXICOLOGY

ACUTE TOXICITY:

Oral: LD50 5040 mg/kg (mouse)
LD50 11700 mg/kg (rat)

Dermal: LD50 961 mg/kg (mouse)
LD50 885 mg/kg (rat)

PRIMARY IRRITANT EFFECT:

Skin: slight irritant
Eye: strong, with danger of severe eye injury

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VII. ECOTOXICITY INFORMATION

AQUATIC TOXICITY:

EC50/72h	485 mg/l Protozoa (<i>Entosiphon sulcatum</i>)
EC50/8d	80 mg/l Bacteria (<i>Microsystis aeruginosa</i>)
EC50/16h	10000 mg/l Bacteria (<i>Pseudomonas putida</i>)
EC50/72h	~120 mg/l Water flea (<i>Daphnia magna</i>)
IC50/7d	640 mg/l Algae (<i>Scenedesmus quadricauda</i>)
LC50/96h	1516 mg/l Bluegill Sunfish (<i>Lepomis macrochirus</i>)
LC50/96h	>440-760 mg/l Golden Orfe (<i>Leuciscus idus</i>)

PERSISTENCE AND DEGRADABILITY:

Soil: the product is easily biodegradable
Water hazard class: slight
Do not let enter into drains/surface water bodies or ground water.

BIOACCUMULATIVE POTENTIAL:

not tested

MOBILITY IN SOIL:

not tested

RESULTS OF PBT AND VPVB ASSESSMENT:

not applicable

VIII. SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: Use in a well ventilated area.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:

EYE: Goggles or face shield
RESPIRATORY: Respirator required
GLOVES: Chemical resistant gloves
OTHER EQUIPMENT: Protective clothing

IX. ACCIDENTAL RELEASE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wearing protective clothing, goggles and gloves, ventilate area, minimize direct contact with skin or eyes and prevent inhalation.

Avoid raising dust.

Collect spilled material with shovel and place into clean container.

Always dispose of waste materials in accordance with all State, Federal and Local Regulations.

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X. SPILL, LEAK AND DISPOSAL PROCEDURES

ENVIRONMENTAL PRECAUTIONS:

For disposal, follow all applicable Federal, State and local regulations.

Do not dispose waste or remains together with domestic waste; do not empty into sink or toilet.

Do not let enter into drains/surface water bodies or ground water.

XI. TRANSPORTATION

DOT: Non-regulated

IMDG/GGVSee: Not Classified

IMDG/GGV-Class: Not Classified

ICACO-TI & IATA-DGR: Not Classified

ADR/RID-GGVSE: Not Classified

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

XII. REGULATORY INFORMATION

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Acute

This product contains no substances which are denoted as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA: Not Regulated

TSCA: Not Regulated

PROPOSITION 65: This product does not contain any substance(s) which are deemed by the state of California to cause cancer, birth defects, or other reproductive effects.