

----- MATERIAL SAFETY DATA SHEET -----
DIAMOND R ACTIVATOR PH
Diamond-R

MANUFACTURER: DIAMOND-R FERTILIZER CO., INC.
P.O. BOX 1137
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(407) 656-3007
DATE PREPARED: October 1995
SUPERCEDES: New

GENERAL INFORMATION

NAME & SYNONYMS: Buffering Surfactant
FAMILY: Alkylarylpoloethoxy Ethanol Phosphates and Organic
Phosphatic Acids
FORMULA: Proprietary blend
HAZARDOUS CLASSIFICATION: Combustible Liquid
MOTOR FREIGHT CLASS: 60
ITEM NUMBER: 4610
UN/NA NUMBER: NA
BILL OF LADING DESCRIPTION: Adjuvant

PHYSICAL DATA

pH (1% Solution): 4.0
BOILING RANGE: NA
% VOLATILE WGT.: <1
SPECIFIC GRAVITY: 1.135(+/- .05)
SOLUBILITY IN WATER: Soluble
EVAPORATION RATE (Water = 1): NA
APPEARANCE & ODOR: Dark green, pleasant scent

HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS MATERIALS	PERCENT	THRESHOLD LIMIT VALUE (units)
Phosphoric Acid	20%	1 mg/m ³
Maximum of 1 ppm Ethylene Oxide (EO) (75-21-8) may be present in the product. The OSHA PEL and ACGIH TLV for EO is 1 ppm.		

HEALTH HAZARD DATA

ACGIH THRESHOLD LIMIT VALUE: Not established for mixture
CARCINOGEN-NTP PROGRAM: No
CARCINOGEN-IARC PROGRAM: No
PRIMARY ROUTES OF ENTRY: Toxic by skin absorption. Direct
eye contact may cause severe eye irritation. Toxic by
prolonged inhalation. Toxic by ingestion, acute effects
are visual impairment, convulsions, headaches and
dizziness.

OTHER HEALTH EFFECTS: Ethylene Oxide has been determined to be a cancer and reproductive hazard. The trace levels of EO in this product are not expected to result in acute or long-term hazards when handled according to the precautions in this MSDS. However, they may accumulate in the head space of storage and transport vessels.

EMERGENCY FIRST AID:

EYES: Flush immediately with water for 15 minutes. Get medical attention.

SKIN: Wash affected areas with soap and water. Get medical attention if irritation develops.

INHALATION: Remove to fresh air, treat symptomatically.

INGESTION: Dilute by drinking two large glasses of water or milk. Do not induce vomiting. Get medical attention immediately.

SARA TITLE III, SECTION 313: This product contains the following toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR372.

CAS#:	CHEMICAL NAME	PERCENT BY WEIGHT
7664-38-2	Phosphoric Acid	20%

FIRE & EXPLOSION HAZARD DATA

FLASH POINT (TCC): >200 deg F

FLAMMABILITY LIMITS: Not established

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol foam

SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective, but may be used to cool closed containers. Use SCBA and wear protective gear.

FIRE AND EXPLOSION HAZARDS: Keep away from heat, sparks and open flame. Vapors may travel to a source of ignition and flash back. Containers may explode in heat of fire.

REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Excess heat and open flames.

HAZARDOUS POLYMERIZATION: Will not occur.

MATERIALS TO AVOID: Strong oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon and phosphorous oxides.

ENVIRONMENTAL PROTECTION

SPILL RESPONSE: Ventilate the area. Dike and contain the spilled material. Collect liquid with an inert absorbent and transfer to a container for reuse or disposal. Flush residue away with large quantities of water.

WASTE DISPOSAL METHOD: Do not contaminate water, food or feed by storage or disposal. Follow federal, state and local regulations regarding health and pollution.

SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Wear goggles or a face shield.
SKIN PROTECTION: Wear chemically resistant gloves.
RESPIRATORY PROTECTION: None required under normal use.
VENTILATION RECOMMENDED: General
OTHER PROTECTION: Full body protective suit. A safety shower, an eye bath and washing facilities should be available.

SPECIAL PRECAUTIONS

HANDLING & STORAGE PRECAUTIONS: Keep out of reach of children. Store in cool dry place. Keep in original container tightly closed. Do not reuse empty container. Do not store with food, feed, or other material to be used or consumed by humans or animals.
OTHER PRECAUTIONS: Do not contaminate water supplies. Do not store with materials labeled "Oxidizers" or oxidizing agents.

The information provided in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The information contained herein is furnished without warranty of any kind.

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COMPAS Code: 21920130
