

----- MATERIAL SAFETY DATA SHEET -----

SPREAD-R
Diamond R

MANUFACTURER: DIAMOND-R FERTILIZER CO., INC.

P.O. BOX 1137

WINTER GARDEN, FL 32787

PRODUCT NAME: Spread-R

DATE PREPARED: Nov/89

CHEMICAL NAME: Principal functioning agents include:

Alkylaryl polyethoxy ethanol, free fatty acids,
isopropanol. Typical values for spray adjuvants = 90
Nonionic Spreader-Activator.

SECTION I - PHYSICAL DATA

BOILING POINT (deg F): N.D.

SPECIFIC GRAVITY (Water = 1): 0.99

VAPOR DENSITY (Air = 1): 2.1

EVAPORATION RATE (Water = 1): 1.7

APPEARANCE & ODOR: Blue liquid, mild alcohol odor

pH: 5.3

MELTING POINT: N/A

VAPOR PRESSURE: 33 mm at 20 deg C

% VOLATILES BY VOL: 37.7%

SOLUBILITY IN WATER: Complete

SECTION II - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method): 76 deg F T.C.C.

FLAMMABLE LIMITS: 2.1 % by volume for isopropanol

EXTINGUISHING MEDIA: Water fog, CO2, dry chemical, foam

UNUSUAL FIRE & EXPLOSION HAZARDS: Vapors can travel to
source of ignition and flash back.

SPECIAL FIRE FIGHTING PROCEDURES: Wear respirator and full
protective gear MSHA/NIOSH approved.

DOT SHIPPING REGULATIONS:

HAZARDOUS CLASS: Flammable liquid

SHIPPING CONTAINER LABELS: Flammable Liquid, NOS

FLASHPOINT: 73 deg F or above

FREIGHT CLASS: 60

IDENTIFICATION NO.: UN1993

SECTION III - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: Strong, oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Excessive heat.

SECTION IV - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV): For isopropanol - 400 ppm
ACGIH

EFFECTS OF OVEREXPOSURE: Ingestion or inhalation of large quantities of vapor may cause flushing, headache, dizziness, mental depression, nausea, vomiting, narcosis, anesthesia, coma.

SECTION V - EMERGENCY AND FIRST-AID PROCEDURES

EYES: Flush with plenty of water for at least 15 minutes.

SKIN: Flush with plenty of water.

INGESTION: Get medical attention immediately.

INHALATION: Move person to fresh air or very well ventilated area. Give artificial respiration if breathing has stopped. Get medical attention immediately.

SECTION VI - TOXICITY

ACUTE TOXICITY: Not determined to the best of our knowledge. For isopropanol (one of the components) - LD50 oral (rat) - 5.8 mg/kg.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Ventilate the area. Contain the spill with inert material. Sweep this material into containers for disposal. Spills are slippery - use to prevent falling.
ELIMINATE IGNITION SOURCES.

WASTE DISPOSAL METHOD: Bury in landfill capable of absorbing surfactants. Leachate can cause forming.

SECTION VIII - SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Use chemical splash goggles.

SKIN PROTECTION: Avoid contact. Wear chemical resistant gloves.

RESPIRATORY PROTECTION: None

VENTILATION: Use in well ventilated area.

OTHER: Have eyewash and general washing facilities nearby.

SECTION IV - SPECIAL PROTECTION

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Avoid storage at high temperatures. Empty containers are still hazardous. KEEP AWAY FROM SOURCES OF IGNITION.

OTHER PRECAUTIONS: Avoid prolonged and repeated skin contact and chances of splashing in eyes. Keep out of reach of children.

The information provided in this Material Safety 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: 21920070
