



BAYER CROP SCIENCE

P.O. Box 4913 Hawthorn Road
Kansas City, MO 64120-0013

TRANSPORTATION EMERGENCY

CALL CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

NON-TRANSPORTATION

BAYER EMERGENCY PHONE...: (800) 414-0244
BAYER INFORMATION PHONE.: (800) 842-8020

1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME.....: BAYER AG Triple Action Rose Food Ready-to-Use Granules
PRODUCT CODE.....: 49021
CHEMICAL FAMILY.....: Fertilizer
PRODUCT USE.....: Consumer Fertilizer

2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME /CAS NUMBER EXPOSURE LIMITS CONCENTRATION (%)

\*\*\*\*\* HAZARDOUS INGREDIENTS \*\*\*\*\*

This material is a 18-11-16 fertilizer mix comprised of the following; (refer to packaging label for specific % breakdown of nitrogen, phosphorus and potash):

Diammonium phosphate
7783-28-0 OSHA : 15.00 mg/m3 (Total) % Not Noted
5.00 mg/m3 (Respirable)
ACGIH: 10.00 mg/m3

Potash
7447-40-7 OSHA : 15.00 mg/m3 (Total) % Not Noted
5.00 mg/m3 (Respirable)
ACGIH: 10.00 mg/m3

Urea
57-13-6 OSHA : 15.00 mg/m3 (Total) % Not Noted
5.00 mg/m3 (Respirable)
ACGIH: 10.00 mg/m3

2. COMPOSITION/INFORMATION ON INGREDIENTS (Continued)

INGREDIENT NAME /CAS NUMBER	EXPOSURE LIMITS	CONCENTRATION (%)
Limestone 1317-65-3	OSHA : 15.00 mg/m3 (Total) 5.00 mg/m3 (Respirable) ACGIH: 10.00 mg/m3	% Not Noted
Nutralene	OSHA : 15.00 mg/m3 (Total) 5.00 mg/m3 (Respirable) ACGIH: 10.00 mg/m3	% Not Noted

3. HAZARDS IDENTIFICATION:

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*                               EMERGENCY OVERVIEW                               *
*                                                                           *
* CAUTION! Color: Multi-colored granule; Form: Solid; Odor: *
* Slight ammonia; May cause eye irritation. *
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POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY.....: Inhalation; Skin Contact; Eye Contact

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE EFFECTS OF EXPOSURE.....: Exposure during the labeled use of this product is expected to be minimal. End-user should refer to the packaging label for proper handling procedures. Exposure to fertilizers (dust) may be irritating to the nose, throat, and respiratory tract, and may cause sore throat, coughing, and shortness of breath. Skin irritation may result. Dust may also be irritating to the eyes, causing redness and watering. Prolonged eye exposure may cause conjunctivitis and corneal damage.

Ingestion may result in sore throat, abdominal pain, nausea, and diarrhea.  
 CHRONIC EFFECTS OF EXPOSURE...: Repeated or prolonged skin exposures may result in dermatitis.

CARCINOGENICITY.....: This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA. It may contain trace amounts of inorganic fluorides and crystalline silica. Fluorides have been suggested as a reproductive hazard and a carcinogen. Crystalline silica is listed by IARC as a Group 1 carcinogen.

NTP.....: Product not listed  
 IARC.....: Product not listed  
 OSHA.....: Product not regulated

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE.....: Pre-existing eye, skin, or respiratory conditions.

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4. FIRST AID MEASURES:  
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FIRST AID FOR EYES.....: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

FIRST AID FOR SKIN.....: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

FIRST AID FOR INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment information.

FIRST AID FOR INGESTION.: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by physician or poison control center. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN.....: Treat symptomatically. In case of poisoning, it is also requested that Bayer Corp., Agriculture Division, Kansas City, Missouri, be notified. Telephone: 1-800-414-0244

ANTIDOTES.....: None

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5. FIRE FIGHTING MEASURES:  
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FLASH POINT.....: Not Applicable

EXTINGUISHING MEDIA.....: Material is not combustible. Use extinguishing media suitable for other combustible materials in the area.

SPECIAL FIRE FIGHTING PROCEDURES: Keep out of smoke, cool exposed containers with water spray. Fight fire from upwind position. Use self-contained breathing equipment. Contain run-off by diking to prevent entry into sewers or waterway. Fertilizer will become slippery when wet; guard against falls.

UNUSUAL FIRE / EXPLOSION HAZARDS: Decomposition products may be toxic.

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6. ACCIDENTAL RELEASE MEASURES:  
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SPILL OR LEAK PROCEDURES.....: Collect spilled product and store to re-use. Contaminated product and/or environmental media should be recovered and disposed of properly.

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7. HANDLING AND STORAGE:  
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STORAGE TEMPERATURE(MIN/MAX): Do not store above 120 F.  
SHELF LIFE.....: Not Noted  
SPECIAL SENSITIVITY.....: Not noted  
HANDLING/STORAGE PRECAUTIONS: Store in a cool, dry, well ventilated area.

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8. PERSONAL PROTECTION:  
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REQUIRED WORK/HYGIENE PROCEDURES...: Exposure during the labeled use of this product is expected to be minimal. Consumers should refer to the packaging label for proper handling procedures. However, if exposure to this product is possible while handling large quantities such as in subsequent manufacturing, transportation spills or other emergencies, the following personal protection is recommended.  
EYE PROTECTION REQUIREMENTS.....: Goggles should be used when needed to prevent granular material or dust from getting into the eyes.  
SKIN PROTECTION REQUIREMENTS.....: Wear long sleeves and trousers to prevent skin contact.  
HAND PROTECTION REQUIREMENTS.....: The use of cotton gloves to prevent skin contact is recommended as good practice.  
VENTILATION REQUIREMENTS.....: Control exposure levels through the use of general and local exhaust ventilation where needed.  
RESPIRATOR REQUIREMENTS.....: Under normal handling conditions, no respiratory protection is needed; however, if use conditions generate excessive dust concentrations, wear a dust/mist respirator approved by the National Institute for Occupational Safety and Health (NIOSH).  
ADDITIONAL PROTECTIVE MEASURES.....: Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Launder clothing after use. Wash thoroughly after handling.

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9. PHYSICAL AND CHEMICAL PROPERTIES:  
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PHYSICAL FORM.....: Solid  
COLOR.....: Multi-colored granule  
ODOR.....: Slight ammonia  
ODOR THRESHOLD.....: Not established  
MOLECULAR WEIGHT.....: Not applicable  
BOILING POINT.....: Not applicable  
MELTING/FREEZING POINT....: Not applicable  
SOLUBILITY IN WATER .....: Partially soluble  
SPECIFIC GRAVITY .....: Not applicable

9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)

BULK DENSITY.....: Not established  
VAPOR PRESSURE .....: Not available  
VAPOR DENSITY .....: Not applicable (Air = 1)

10. STABILITY AND REACTIVITY:

STABILITY.....: This is a stable material.  
HAZARDOUS POLYMERIZATION...: Will not occur.  
INCOMPATIBILITIES.....: Strong oxidizers, caustics, acids, hypochlorites  
INSTABILITY CONDITIONS.....: Excessive heat (greater than 200F); may release ammonia on standing.  
DECOMPOSITION PRODUCTS.....: HCN, NOx, COx, NH3, POx, cyanuric acid

11. TOXICOLOGICAL INFORMATION:

NO ANIMAL TOXICITY INFORMATION AVAILABLE

12. ECOLOGICAL INFORMATION:

NO ECOLOGICAL INFORMATION AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD.....: Follow container label instructions for disposal of wastes generated during use in compliance with the product label.  
Reuse recovered product where possible.

14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME.....: Fertilizer  
FREIGHT CLASS BULK.....: I-68140-CL60  
FREIGHT CLASS PACKAGE.....: I-68140-CL60  
PRODUCT LABEL.....: BAYER AG Triple Action Rose Food Ready-to-Use Granules

14. TRANSPORTATION INFORMATION (Continued)

DOT (DOMESTIC SURFACE)

HAZARD CLASS OR DIVISION .....: Non-Regulated

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

ICAO / IATA (AIR)

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

15. REGULATORY INFORMATION:

OSHA STATUS.....: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS.....: This product is exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY...: None

SARA TITLE III:

SECTION 302 EXTREMELY

HAZARDOUS SUBSTANCES...: None

SECTION 311/312

HAZARD CATEGORIES.....: Immediate Health Hazard

SECTION 313

TOXIC CHEMICALS.....: None

RCRA STATUS.....: Not Noted

16. OTHER INFORMATION:

REASON FOR ISSUE.....: Create new MSDS

PREPARED BY.....: V. C. Standart

APPROVED BY.....: D. C. Eberhart

TITLE.....: Director Product Safety & Stewardship

APPROVAL DATE.....: 07/29/2002

SUPERSEDES DATE.....: None

MSDS NUMBER.....: 46123

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Product Code: 49021  
Approval date: 07/29/2002

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