

MATERIAL SAFETY DATA SHEET



Emergency Phone: 800-992-5994
Dow AgroSciences LLC
Indianapolis, IN 46268

GALLERY* T&V 75 DRY FLOWABLE HERBICIDE

Effective Date: 8/5/03
Product Code: 63344
MSDS: 003994

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Gallery* T&V 75 Dry Flowable Herbicide

COMPANY IDENTIFICATION:

Dow AgroSciences
9330 Zionsville Road
Indianapolis, IN 46268-1189

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Isoxaben: N-(3-(1-ethyl-1-methylpropyl)-5-isoxazolyl)-2,6-dimethoxybenzamide and isomers (Isoxaben)	CAS# 082558-50-7	75%
Other ingredients, total, including:		25%
Kaolin	CAS# 001332-58-7	
Crystalline silica (in Kaolin)	CAS# 014808-60-7	

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

3. HAZARDOUS IDENTIFICATIONS:

EMERGENCY OVERVIEW

Light tan water dispersible granule with a mild aromatic odor. May cause eye irritation with corneal injury. LD₅₀ for skin absorption is >5000 mg/kg. Oral LD₅₀ is >5000 mg/kg.

EMERGENCY PHONE NUMBER: 800-992-5994

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: May cause moderate eye irritation, which may be slow to heal. May cause slight transient (temporary) corneal injury.

SKIN: Prolonged or repeated exposure may cause slight skin irritation. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The LD₅₀ for skin absorption in rabbits is >5000 mg/kg.

INGESTION: Very low toxicity if swallowed. The oral LD₅₀ for rats is >5000 mg/kg. Harmful effects not anticipated from swallowing small amounts.

INHALATION: No adverse effects are anticipated from single exposure to dust.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:

Contains component(s), which, in animals, have been shown to cause liver and kidney effects. Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs. Some evidence suggests that kidney effects may result from excessive exposure also.

CANCER INFORMATION: This mixture contains a component which, is listed as a carcinogen for hazard communication purposes under OSHA Standard 29 CFR 1910.1200. Component listed by IARC and NTP is crystalline silica. An increase in non-malignant liver tumors was observed with isoxaben in one of two species tested.

TERATOLOGY (BIRTH DEFECTS): Isoxaben caused birth defects in laboratory animals only at doses toxic to the mother.

REPRODUCTIVE EFFECTS: Isoxaben has been shown to interfere with reproduction in animal studies.

4. FIRST AID:

EYES: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

SKIN: Wash skin with plenty of water.

INGESTION: No emergency medical treatment necessary.

INHALATION: Move person to fresh air; if effects occur, consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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5. FIRE FIGHTING MEASURES:

FLASH POINT: Not applicable
METHOD USED: Not applicable

FLAMMABLE LIMITS

LFL: 0.665 oz/cu ft
UFL: Not applicable

AUTO-IGNITION TEMPERATURE: 778°F to 788°F,
(415°C to 420°C)

EXTINGUISHING MEDIA: Use water, CO₂ or dry
chemicals.

FIRE AND EXPLOSION HAZARDS: Will emit toxic vapors
as it burns.

FIRE-FIGHTING EQUIPMENT: Wear full protective
clothing and use positive-pressure, self-contained breathing
apparatus.

6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS: Contain and sweep up
material of small spills and dispose as waste. Report large
spills to Dow AgroSciences at 800-992-5994. Prevent
runoff.

7. HANDLING AND STORAGE:

**PRECAUTIONS TO BE TAKEN IN HANDLING AND
STORAGE:** Keep out of reach of children. Causes eye
irritation. Harmful if inhaled. Avoid ingestion, breathing dust
or spray mist, and contact with skin, eyes, or clothing. Store
in original container. Do not store in direct sunlight. Do not
store at temperatures above 120°F. Users should wash
hands before eating, drinking, chewing gum, using tobacco,
or using the toilet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions where the
potential for exposure exists. Emergency conditions may
require additional precautions.

EXPOSURE GUIDELINE(S):

Kaolinite: ACGIH TLV is 2 mg/M³ respirable, A4, for Kaolin.
OSHA PEL is 15 mg/M³ total dust, 5 mg/M³ respirable for
Kaolin.

Silica, crystalline: ACGIH TLV is 0.1 mg/M³ (respirable) for
tripoli and fused silica; 0.05 mg/M³ (respirable) for
cristobalite, tridymite, and quartz. Quartz has an A2
designation. OSHA PEL is (30 mg/M³)/(%SiO₂+2) total
dust, (250 mppcf)/(%SiO₂+5) or (10 mg/M³)/(%SiO₂+2)
respirable for quartz, tripoli, and fused silica; the value for
cristobalite and tridymite is 1/2 the value calculated for the
respirable dust formula for quartz.

ENGINEERING CONTROLS: Provide general and/or local
exhaust ventilation to control airborne levels below the
exposure guidelines.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS:

RESPIRATORY PROTECTION: Atmospheric levels should
be maintained below the exposure guidelines. When
respiratory protection is required for certain operations, use
a NIOSH approved air-purifying respirator. In dusty
atmospheres, use a NIOSH approved particulate respirator.

SKIN PROTECTION: Use gloves chemically resistant to
this material when prolonged or frequently repeated contact
could occur.

EYE PROTECTION: Use chemical goggles.

APPLICATORS AND ALL OTHER HANDLERS: Refer to
the product label for personal protective clothing and
equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES:

BOILING POINT: Not applicable
VAPOR PRESSURE: Not applicable
VAPOR DENSITY: Not applicable
SOLUBILITY IN WATER: Disperses in water
SPECIFIC GRAVITY: Not applicable
APPEARANCE: Light tan water dispersible granule
ODOR: Mild aromatic odor
pH: (aqueous 50/50) 8.5 to 10.0

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10. STABILITY AND REACTIVITY:

STABILITY: (CONDITIONS TO AVOID) Do not store near heat or flame. Do not store in direct sunlight. Do not store at temperatures above 120°F.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID)
None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Will emit toxic vapors as it burns.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION:

MUTAGENICITY: In-vitro and animal genetic toxicity studies were negative.

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL FATE:

MOVEMENT & PARTITIONING:

Based largely or completely on information for isoxaben. Bioconcentration potential is low (BCF is <100 or Log Pow <3).

DEGRADATION & PERSISTENCE:

Based largely or completely on information for isoxaben. The photolysis half-life in water is 6 days. The photolysis half-life in soil is 248 days. Under aerobic soil conditions the half-life is 4.3-10.6 months.

ECOTOXICOLOGY:

Based largely or completely on information for isoxaben. Not expected to be acutely toxic to aquatic organisms. EC₅₀ is above the water solubility.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: Do not contaminate food, feed, or water by storage or disposal. Wastes are toxic. Improper disposal is a violation of federal law. If wastes resulting from the use of this product cannot be disposed of according to label instructions, dispose of these wastes at an approved facility. Contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

14. TRANSPORT INFORMATION:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:

This material is not regulated for transportation.

15. REGULATORY INFORMATION:

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health effect

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TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
Kaolin	001332-58-7	PA1
Silica - crystalline, quartz	014808-60-7	NJ3 PA1

NJ3=New Jersey Workplace Hazardous Substance (present at > or = to 1.0%).

PA1=Pennsylvania Hazardous Substance (present at > or = to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

CATEGORY	RATING
Health	2
Flammability	0
Reactivity	0

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND): To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

16. OTHER INFORMATION:

MSDS STATUS: Revised Section: 3, 4, 8, 11, 12, 14 & 15
Reference: DR-0324-6740
Replaces MSDS Dated: 8/25/00
Document Code: D03-010-003
Replaces Document Code: D03-010-002

The Information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult Dow AgroSciences for Further Information.