Bayer Environmental Science

MSDS Number: 000000000181

RONSTAR® G HERBICIDE

MSDS Version 2.2

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	RONSTAR® G HERBICIDE
Chemical Name	
Synonym	Oxadiazon, RP 17623
MSDS Number	181
Chemical Family	
Chemical Formulation	C15H18Cl2N2O3
EPA Registration No.	432-886
Canadian Registrat. No.	

Bayer Environmental Science
95 Chestnut Ridge Road
Montvale, NJ 07645
USA

For Product Use Information: (800)331-2867 Monday through Friday(CRLF) 8:00AM-4:30PM(CRLF) For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day(CRLF) For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

Product Use Description FIFRA regulated use only.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS No.	Concentration % by Weight Minimum	Maximum
OXADIAZON	19666-30-9	2.0000	
Other ingredients (Trade secret)		98.0000	

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview	Warning! Causes skin irritation. Causes eye irritation. Harmful if swallowed, inhaled or absorbed through the skin.
Physical State	solid powder
Odor	slight
Appearance	off-white
Immediate Effects	
Eye	Causes redness, irritation, tearing.
Skin	Low acute dermal toxicity. Causes irritation, redness, swelling.
Ingestion	Harmful if ingested.
Inhalation	Harmful if inhaled. Can cause upper respiratory tract irritation.
Chronic or Delayed Long-Term	This product contains ingredients that are considered to be probable or suspected human carcinogens (See Section 11 - Chronic). Prolonged contact may cause benign changes in lung tissue.
Medical Conditions Aggravated by Exposure	Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

SECTION 4. FIRST AID MEASURES

Eye	Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.
Skin	In case of contact, immediately wash with plenty of soap and water for atleast 15 minutes. Seek medical attention. Remove contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned.
Ingestion	If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical. Persons attending the victim should avoid direct contact with heavily contaminated clothing and vomitus. Wear impervious gloves while decontaminating skin and hair.

Inhalation	Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.
Note to Physician	All treatment should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	Not applicable
Fire and Explosion Hazards	Under fire conditions, toxic, corrosive fumes are emitted.
Suitable Extinguishing Media	Not combustible., Use extinguishing method suitable for surrounding fire.
Fire Fighting Instructions	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Dike areas to prevent runoff and contamination of water sources. Dispose of fire control water later.

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal	Evacuation Procedures and Safety: Wear appropriate gear for the situation. See Personal Protection information in Section 8. Cleanup and Disposal of Spill: Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Decontaminate tools and equipment following cleanup.
Land Spill or Leaks	Containment of Spill: Follow procedure under Cleanup and Disposal of Spill. Environmental and Regulatory Reporting: Do not flush to drain. If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterway.

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Do not ingest. Avoid breathing dusts. Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. It is recommended that all dust control equipment and material transport systems

involved in handling of this product contain explosion relief vents or explosion suppression system or an oxygen deficient environment.

In addition, all conductive elements of the system that contact this material should be electrically bonded and grounded. This powder should not be flowed through non-conductive ducts or pipes. Use only appropriately classed electrical equipment.

Storing Procedures

Store in an area away from food, feedstuffs, fertilizers and seed.

Work/Hygienic Procedures

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

Wash exposed skin promptly to remove accidental splashes of contact with this material.

Min/Max Storage Temperatures

Not Available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Where engineering controls are indicated by use conditions of a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures:

Eye/Face Protection

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Body Protection

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Respiratory Protection

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Under conditions immediately dangerous to life or health, or emergency

conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

General Protection

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Exposure Limits

None Established

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	off-white
Physical State	solid powder
Odor	slight
pH	Not available
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Specific Gravity	Not available
Boiling Point	Not available
Melting/Freezing Point	Not available
Solubility (in water)	insoluble
Molecular Weight	345.2 g/mol

Other Information

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

This material is stable under normal handling and storage conditions described in Section 7.

Conditions to Avoid

None known

Incompatibility

strong bases
strong acids
strong oxidizing agents

Hazardous Products of Decomposition

Decomposition Type: thermal
hydrogen chloride
oxides of nitrogen
carbon oxides

Hazardous Polymerization (Conditions to avoid)

not applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity

Rat: LD50: > 5,000 mg/kg

Acute Dermal Toxicity

Rabbit: LD50: > 2,000 mg/kg

Acute Inhalation Toxicity

Rat: LC50: > 2,000 mg/l 4 h

Acute Respiratory Irritation
No test data found for product.

Skin Irritation

Rabbit: Moderately irritating

Eye Irritation

Rabbit: Mildly irritating.
Irritation is transient.

Chronic Toxicity

No additional test data found for product.

Assessment Carcinogenicity

ACGIH

None

NTP

None

IARC

None

OSHA

None

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information	No data found for product.
Environmental Fate	No data found for product.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance	Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
Container Disposal	Do not reuse containers. Any container or equipment used should be decontaminated immediately after use. Consult state and local regulations regarding the proper disposal of container. EPA HAZARDOUS WASTE - NO
RCRA Classification	Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

Transportation Status:
The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation
Shipping Name: NOT REGULATED

SECTION 15. REGULATORY INFORMATION

US Federal

EPA Registration No. 432-886

TSCA list

None

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

OXADIAZON	19666-30-9	1.0%

US States Regulatory

CA Prop65

This product contains a chemical known to the state of California to cause cancer.	OXADIAZON	19666-30-9

US State right-to-know ingredients

OXADIAZON	19666-30-9	NJ

Canadian Regulations

Canadian Registrat. No.

Canadian Domestic Substance List

None

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations

EU Classification

None

European Inventory of Existing Commercial Substances (EINECS)

OXADIAZON	19666-30-9

SECTION 16. OTHER INFORMATION

	Health	Flammability	Reactivity	Others
HMIS	2	1	0	
NFPA	2	1	0	

Reason for Revisions:Company name change.

Print Date: 12/09/2002
Supersedes MSDS, which is older than: 12/09/2002

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