

Version 3.0 / USA 10200004005

1/12 Revision Date: 03/10/2014 Print Date: 05/06/2015

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Due des ( i de stiffe s		
Product identifier		
Trade name	RONSTAR® G HERBICIDE	
Product code (UVP)	05950651	
SDS Number	10200004005	
EPA Registration No.	432-886	
Relevant identified uses of th	e substance or mixture and uses advised against	
Use	Herbicide	
Restrictions on use	See product label for restrictions.	
Information on manufacturer		
	Bayer Environmental Science 2 T.W. Alexander Drive Research Triangle PK, NC 27709 United States	
Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577 (24 hours/day)	
Product Information Telephone Number	1-800-331-2867	
SDS Information or Request	SDSINFO.BCS-NA@bayer.com	

### **SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with regulation HCS 29CFR §1910.1200 Eye irritation : Category 2B Signal word: Warning

Hazard statements Causes eye irritation.

#### **Precautionary statements**

Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Other hazards

No other hazards known.



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight	
Oxadiazon	19666-30-9	2.00	
Titanium dioxide	13463-67-7	0.92	
Naphthalene	91-20-3	0.42	

### **SECTION 4: FIRST AID MEASURES**

Description of first aid measures		
General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.	
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.	
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.	
Eye contact	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 physician or poison control center immediately.	
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.	
Most important symptoms and effects, both acute and delayed		
Symptoms	To date no symptoms are known.	
Indication of any immediate medical attention and special treatment needed		
Risks	Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.	
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.	

#### **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	None known.



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Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.
Advice for firefighters	
Special protective equipment for fire-fighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information	Use appropriate extinguishing media for material that is supplying fuel.
	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
Flash point	not applicable
Autoignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	no data available

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.	
Methods and materials for co	ntainment and cleaning up	
Methods for cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.	
Additional advice	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.	
Reference to other sections	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.	

### SECTION 7: HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.
Advice on protection	Take measures to prevent the build up of electrostatic charge.



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### against fire and explosion

Hygiene measures	Keep away from food, drink and animal feedingstuffs. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.	
Conditions for safe storage, including any incompatibilities		
Requirements for storage areas and containers	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.	

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Naphthalene	91-20-3	10 ppm (TWA)		OES BCS*
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH
Naphthalene	91-20-3	15 ppm (STEL)	02 2012	ACGIH
Naphthalene	91-20-3	10 ppm (TWA)	02 2013	ACGIH NIC
Naphthalene	91-20-3	50 mg/m3/10 ppm (REL)	2010	NIOSH
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	2010	NIOSH
Naphthalene	91-20-3	50 mg/m3/10 ppm (PEL)	02 2006	OSHA Z1
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	1989	OSHA Z1A
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	1989	OSHA Z1A
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	06 2008	TN OEL
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	06 2008	TN OEL
Naphthalene	91-20-3	10ppb (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	38ppb (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	50ug/m3 (AN ESL)	07 2011	TX ESL



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Naphthalene	91-20-3	200ug/m3 (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	08 2010	US CA OEL
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA PEL)	08 2010	US CA OEL
Cellulose	9004-34-6	10 mg/m3 (TWA)	02 2012	ACGIH
Cellulose (Total)	9004-34-6	10 mg/m3 (REL)	2010	NIOSH
Cellulose (Respirable.)	9004-34-6	5 mg/m3 (REL)	2010	NIOSH
Cellulose (Total dust.)	9004-34-6	15 mg/m3 (PEL)	02 2006	OSHA Z1
Cellulose (Respirable fraction.)	9004-34-6	5 mg/m3 (PEL)	02 2006	OSHA Z1
Cellulose (Total dust.)	9004-34-6	15 mg/m3 (TWA)	1989	OSHA Z1A
Cellulose (Respirable fraction.)	9004-34-6	5 mg/m3 (TWA)	1989	OSHA Z1A
Cellulose (Respirable fraction.)	9004-34-6	5 mg/m3 (TWA)	06 2008	TN OEL
Cellulose (Total dust.)	9004-34-6	15 mg/m3 (TWA)	06 2008	TN OEL
Cellulose (Particulate.)	9004-34-6	50ug/m3 (ST ESL)	02 2013	TX ESL
Cellulose (Particulate.)	9004-34-6	5ug/m3 (AN ESL)	02 2013	TX ESL
Kaolin (Respirable fraction.)	1332-58-7	2 mg/m3 (TWA)	02 2012	ACGIH
Kaolin (Total)	1332-58-7	10 mg/m3 (REL)	2010	NIOSH
Kaolin (Respirable.)	1332-58-7	5 mg/m3 (REL)	2010	NIOSH
Kaolin (Total dust.)	1332-58-7	15 mg/m3 (PEL)	02 2006	OSHA Z1
Kaolin (Respirable fraction.)	1332-58-7	5 mg/m3 (PEL)	02 2006	OSHA Z1
Kaolin (Total dust.)	1332-58-7	10 mg/m3 (TWA)	1989	OSHA Z1A
Kaolin (Respirable fraction.)	1332-58-7	5 mg/m3 (TWA)	1989	OSHA Z1A
Kaolin (Total dust.)	1332-58-7	10 mg/m3 (TWA)	06 2008	TN OEL
Kaolin (Respirable fraction.)	1332-58-7	5 mg/m3 (TWA)	06 2008	TN OEL
Kaolin (Particulate.)	1332-58-7	20ug/m3 (ST ESL)	02 2013	TX ESL
Kaolin	1332-58-7	2ug/m3	02 2013	TX ESL



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(Particulate.)		(AN ESL)		
Kaolin (Respirable dust.)	1332-58-7	2 mg/m3 (TWA PEL)	08 2010	US CA OEL
Calcium carbonate (Respirable.)	471-34-1	5 mg/m3 (REL)	2010	NIOSH
Calcium carbonate (Total)	471-34-1	10 mg/m3 (REL)	2010	NIOSH
Calcium carbonate	471-34-1	50ug/m3 (ST ESL)	07 2011	TX ESL
Calcium carbonate	471-34-1	5ug/m3 (AN ESL)	07 2011	TX ESL
Titanium dioxide	13463-67-7	10 mg/m3 (TWA)	02 2012	ACGIH
Titanium dioxide (Respirable fraction.)	13463-67-7	1 mg/m3 (TWA)	02 2013	ACGIH NIC
Titanium dioxide (Total dust.)	13463-67-7	15 mg/m3 (PEL)	02 2006	OSHA Z1
Titanium dioxide (Total dust.)	13463-67-7	10 mg/m3 (TWA)	1989	OSHA Z1A
Titanium dioxide (Total dust.)	13463-67-7	10 mg/m3 (TWA)	06 2008	TN OEL
Titanium dioxide (Respirable particles.)	13463-67-7	50ug/m3 (ST ESL)	02 2013	TX ESL
Titanium dioxide (Respirable particles.)	13463-67-7	5ug/m3 (AN ESL)	02 2013	TX ESL
Oxadiazon	19666-30-9	0.28 mg/m3 (TWA)		OES BCS*
Oxadiazon	19666-30-9	5ug/m3 (AN ESL)	07 2011	TX ESL
Oxadiazon	19666-30-9	50ug/m3 (ST ESL)	07 2011	TX ESL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

#### **Exposure controls**

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

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



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Hand protection	Chemical resistant nitrile rubber gloves
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StategranularOdorslightOdour Thresholdno data availablepHno data availableVapor Pressureno data availableVapor Density (Air = 1)no data availableBulk density44.0 - 50.0 lb/ft³ (loose)Evapouration rateno data availableBoiling Pointnot applicableMelting / Freezing Pointnot applicableMater solubilityinsolubleDecompositionno data availablePartition coefficient: n- octanol/waternot applicableViscositynot applicableFlash pointnot applicableAutoignition temperatureno data availableLower explosion limitnot applicableUpper explosion limitnot applicableNo data availablenot applicableLower explosion limitnot applicableNo data availablenot applicableLower explosion limitnot applicableNot applicablenot applicableLower explosion limitnot applicableNot applicablenot applicableLower explosion limitnot applicableNot applicablenot applicableLower explosion limitnot applicableNo data availablenot applicableNot	Appearance	grey to tan
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Explosivity no data available	Upper explosion limit	not applicable
	Explosivity	no data available



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# SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	no data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	no data available
Incompatible materials	Strong bases, Strong acids, Strong oxidizing agents
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Inhalation, Eye contact, Skin contact, Ingestion		
Immediate Effects Eye	Causes redness, irritation, tearing.		
Skin	Causes irritation, redness, swelling.		
Ingestion	Harmful if swallowed.		
Inhalation	May cause upper respiratory tract irritation.Harmful if inhaled.		
Information on toxicological effects			
Acute oral toxicity	LD50 (rat) > 5,000 mg/kg		
Acute inhalation toxicity	LC50 (rat) > 200 mg/l Exposure time: 1 h Determined in the form of dust.		
Acute dermal toxicity	LD50 (rabbit) > 2,000 mg/kg		
Skin irritation	Moderate skin irritation. (rabbit)		
Eye irritation	Moderate eye irritation. (rabbit)		
Sensitisation	Non-sensitizing. (guinea pig)		

#### Assessment repeated dose toxicity

Oxadiazon caused specific target organ toxicity in experimental animal studies in the following organ(s): liver, blood. The observed effects do not appear to be relevant for humans.

#### **Assessment Mutagenicity**

Oxadiazon was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

#### Assessment Carcinogenicity

Oxadiazon caused at high dose levels an increased incidence of tumours in in the following organ(s):



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liver. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

#### ACGIH

Titanium dioxide Naphthalene	13463-67-7 91-20-3	Group A4 Group A4
NTP		
Naphthalene	91-20-3	
IARC		
Titanium dioxide Naphthalene	13463-67-7 91-20-3	Overall evaluation: 2B Overall evaluation: 2B
00114		

#### OSHA

None.

#### Assessment toxicity to reproduction

Oxadiazon caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Oxadiazon is related to parental toxicity.

#### Assessment developmental toxicity

Oxadiazon caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Oxadiazon are related to maternal toxicity.

## SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 1.2 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient oxadiazon.
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) > 2.4 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient oxadiazon.
Toxicity to aquatic plants	EC50 (Skeletonema costatum) 0.0056 mg/l Exposure time: 120 h The value mentioned relates to the active ingredient oxadiazon.
Biodegradability	Oxadiazon: ; not rapidly biodegradable
Кос	Oxadiazon: Koc: 1294
Bioaccumulation	Oxadiazon: Bioconcentration factor (BCF) 243; Does not bioaccumulate.
Mobility in soil	Oxadiazon: Slightly mobile in soils
Environmental precautions	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.



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# SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.
Contaminated packaging	Do not re-use empty containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

### **SECTION 14: TRANSPORT INFORMATION**

<b>49CFR</b> UN number Class Packaging group Proper shipping name	<b>3077</b> 9 III ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (NAPHTHALENE) Reportable Quantity is reached with 23,809 lb of product.
IMDG UN number Class Packaging group Marine pollutant Proper shipping name	<b>3077</b> 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (OXADIAZON MIXTURE)
IATA UN number Class Packaging group Environm. Hazardous Mark Proper shipping name	<b>3077</b> 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (OXADIAZON MIXTURE )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.



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Freight Classification:

COMPOUNDS, TREE OR WEEDKILLING, N.O.I., other than poison; HAVING A DENSITY OF GREATER THAN 20 LBS. PER CUBIC FOOT

### **SECTION 15: REGULATORY INFORMATION**

US Federal Regulations TSCA list	432-886			
Titanium dioxide		13463-67-7		
Naphthalene		91-20-3		2 707 Output D)
US. Toxic Substances Contro None.	I ACT (ISCA)	) Section 12(b) E	export Notification (40 CF)	(707, Subpt D)
SARA Title III - Section 302 - N	lotification	and Information		
None.				
SARA Title III - Section 313 - 1	oxic Chemi	cal Release Rep	orting	
Oxadiazon		19666-30-9	g	25,000lbs
Naphthalene		91-20-3		0.1%
US States Regulatory Reporti	ng			
CA Prop65	-			
This product contains a chemica	al known to th		rnia to cause cancer.	
Oxadiazon		19666-30-9		
Titanium dioxide		13463-67-7		
Naphthalene		91-20-3		
This product contains a chemica reproductive harm.	al known to th	ne State of Califo	rnia to cause birth defects o	r other
Oxadiazon		19666-30-9	Developmental toxin.	
			-	
US State Right-To-Know Ingre	edients			
Oxadiazon		19666-30-9	NJ	
Titanium dioxide		13463-67-7	MN	
Naphthalene		91-20-3	CA, CT, MN, NJ	
Canadian Regulations				
Canadian Domestic Substanc	o l ist			
Titanium dioxide	e List	13463-67-7		
Naphthalene		91-20-3		
Rapharaiono		01 20 0		
Environmental CERCLA				
Naphthalene		91-20-3		100 lbs
Clean Water Section 307 Prior	rity Pollutan	ts		
None.				
Safe Drinking Water Act Maxi	mum Contai	minant Levels		
None.				
International Regulations				

International Regulations European Inventory of Existing Commercial Substances (EINECS)



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Oxadiazon	19666-30-9
Titanium dioxide	13463-67-7
Naphthalene	91-20-3

#### **EPA/FIFRA** Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word:	Warning!
Hazard statements:	Causes eye irritation. Causes skin irritation. Harmful if inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling.

### **SECTION 16: OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):				
Health - 2	Flammability - 1	Instability - 0	Others - none	
HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)				
Health - 2	Flammability - 1	Physical Hazard - 0	PPE -	
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard				

**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

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This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.