



## OSPREY(TM) Herbicide

MSDS Version 2.2

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** OSPREY(TM) Herbicide  
**Chemical Name**  
**Common Name**  
**MSDS Number** 1991  
**Chemical Family**  
**Chemical Formulation**  
**EPA Registration No.** 264-802

Bayer CropScience  
 2 T.W. Alexander Drive  
 Research Triangle PK, NC 27709  
 USA

For MEDICAL, TRANSPORTATION or Other EMERGENCY call 1-800-334-7577 24 hours/day  
 For Product Information call 1-866-99BAYER (1-866-992-2937)

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Mesosulfuron-Methyl	208465-21-8	4.2000	4.8000
Phenylpyrazolin	135590-91-9	9.1000	10.1000
Crystalline Silica (Quartz)	14808-60-7	0.2900	1.1400
Naphthalene	91-20-3		2.3000

This product contains materials which are Trade Secret and may have Occupational Exposure Limits. Due to the granular nature of the product it is not expected that workers would be exposed to these materials under normal handling and use situations. If more information is required call the product information number listed in Section 1.

# Material Safety Data Sheet

## OSPREY(TM) Herbicide

MSDS Number: 000000001991  
MSDS Version 2.2

### SECTION 3. HAZARDS IDENTIFICATION

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

#### Emergency Overview

Caution! Harmful if swallowed or absorbed through skin. Moderate eye irritation. Avoid contact with skin, eyes and clothing.

**CARCINOGENICITY:** This product is not listed as a carcinogen by NTP or IARC, or regulated as a carcinogen by OSHA. However, it may contain crystalline silica (quartz), a substance which is classified by NTP as a Group 2 carcinogen and by IARC as a Group I carcinogen. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although controversial, the carcinogenic potential of crystalline silica must be considered if it is inhaled under excessive exposure conditions. However, the respirable portion of the silica which may be contained in this product is small, such that excessive inhalation exposure during normal conditions of use is unlikely.

**NTP:** Crystalline silica is classified as an NTP Anticipated Human Carcinogen - "Substances or groups of substances that may reasonably be anticipated to be carcinogens."

**IARC:** IARC has classified crystalline silica as a Group I carcinogen. "There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica (quartz) from occupational sources."

**OSHA:** Not regulated.

#### Physical State

Solid  
Granular

#### Immediate Effects

##### Eye

Do not get in eyes. Moderate eye irritation.

##### Skin

Harmful if absorbed through skin. May cause slight irritation. Avoid contact with skin.

##### Ingestion

Harmful if swallowed. Do not take internally.

### SECTION 4. FIRST AID MEASURES

#### General

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

#### Eye

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.

#### Skin

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment

# Material Safety Data Sheet

## OSPREY(TM) Herbicide

MSDS Number: 000000001991  
MSDS Version 2.2

advice.

### Ingestion

Call a poison control center or doctor immediately for treatment advice. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious or convulsing person.

## SECTION 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media

Foam, Dry powder, Carbon dioxide (CO2), Water spray

### Fire Fighting Instructions

Wear self-contained breathing apparatus and protective suit. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### General and Disposal

Keep unnecessary people away, isolate hazard area and deny entry. Wear appropriate gear for the situation. See Personal Protection information in Section 8.

### Land Spill or Leaks

Do not allow material to enter streams, sewers, or other waterways. Sweep up, keeping dust to a minimum, and place in an approved chemical container.

## SECTION 7. HANDLING AND STORAGE

### Handling Procedures

Wear protective eyewear. Do not get in eyes or on clothing.

### Storing Procedures

Do not contaminate water, food, or feed by storage or disposal.

Keep tightly closed in a dry, cool and well-ventilated place.

### Work/Hygienic Procedures

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove Personal Protective Equipment (PPE) immediately after handling this product. As soon as practical, wash thoroughly and change into clean clothing.

# Material Safety Data Sheet

MSDS Number: 000000001991  
MSDS Version 2.2

## OSPREY(TM) Herbicide

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** When handlers used closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**Eye/Face Protection** Protective eyewear.  
Safety glasses

**Hand Protection** Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.

**Body Protection** Long-sleeved shirt and long pants. Shoes plus socks.

**General Protection** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### Exposure Limits

Crystalline Silica (Quartz)	14808-60-7	NIOSH	REL		0.05 mg/m3
			Form of Exposure	Respirable dust.	
			OSHA Z1A TWA		0.1 mg/m3
			Form of Exposure	Respirable dust.	
			US CA OEL TWA PEL		0.1 mg/m3
Naphthalene	91-20-3	NIOSH	Form of Exposure	Respirable dust.	
			US CA OEL TWA PEL		0.3 mg/m3
			Form of Exposure	Total dust.	
			ACGIH TWA		0.05 mg/m3
			ACGIH TWA		10 ppm
			ACGIH STEL		15 ppm
			NIOSH REL	10 ppm	50 mg/m3
			NIOSH STEL	15 ppm	75 mg/m3
			OSHA Z1 PEL	10 ppm	50 mg/m3
			OSHA Z1A TWA	10 ppm	50 mg/m3
OSHA Z1A STEL	15 ppm	75 mg/m3			
US CA OEL TWA PEL	10 ppm	50 mg/m3			
US CA OEL STEL	15 ppm	75 mg/m3			

# Material Safety Data Sheet

## OSPREY(TM) Herbicide

MSDS Number: 000000001991

MSDS Version 2.2

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid Granular
<b>pH</b>	8.7 at 25 °C Determined as a 10% suspension in distilled water.
<b>Bulk Density</b>	0.63 g/ml

### SECTION 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Hazardous Products of Decomposition</b>	In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Nitrogen oxides (NO <sub>x</sub> ) Sulphur oxides Hydrogen fluoride Hydrogen cyanide (hydrocyanic acid) Hydrogen chloride (HCl)

### SECTION 11. TOXICOLOGICAL INFORMATION

<b>Acute Oral Toxicity</b>	Rat: LD50: > 2,000 mg/kg
<b>Acute Dermal Toxicity</b>	Rabbit: LD50: > 2,000 mg/kg
<b>Acute Inhalation Toxicity</b>	Rat: LC50: 2.17 mg/l 4 h Maximum attainable concentration.
<b>Skin Irritation</b>	Rat: 1-hr exposure (extrapolated from 4-hr LC50): > 8.68 mg/l Rabbit: slight irritation
<b>Eye Irritation</b>	Rabbit: Cleared in 7 days. Moderate eye irritation.
<b>Sensitization</b>	Guinea pig: non-sensitizing
<b>Chronic Toxicity</b>	There were no treatment-related effects noted in chronic toxicity studies in rats and dogs treated with mesosulfuron-methyl.
<b>Assessment Carcinogenicity</b>	Mesosulfuron-methyl was not carcinogenic in oncogenicity studies in rats and mice.

**ACGIH**

# Material Safety Data Sheet

MSDS Number: 000000001991  
MSDS Version 2.2

## OSPREY(TM) Herbicide

Crystalline Silica (Quartz)	14808-60-7	Group A2
Naphthalene	91-20-3	Group A4
<b>NTP</b>		
Crystalline Silica (Quartz)	14808-60-7	
Naphthalene	91-20-3	
<b>IARC</b>		
<b>OSHA</b>		
None		

### Reproductive & Developmental Toxicity

REPRODUCTION: Mesosulfuron-methyl did not produce any reproductive effects in a reproductive toxicity study in rats.

DEVELOPMENTAL TOXICITY: There was no evidence of an embryotoxic, developmental or teratogenic potential for mesosulfuron-methyl in developmental toxicity studies in rats and rabbits.

### Neurotoxicity

Mesosulfuron-methyl has no structural relationship to known neurotoxic substances. Moreover, the very low and non-specific toxicological profile of mesosulfuron-methyl shows no evidence of neurotoxic potential.

### Mutagenicity

Mesosulfuron-methyl did not induce point mutations, chromosome aberrations, or DNA damage and, thus, is not genotoxic.

## SECTION 12. ECOLOGICAL INFORMATION

### Environmental Precautions

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not contaminate water. Do not apply where runoff is likely to occur.

## SECTION 13. DISPOSAL CONSIDERATIONS

### General Disposal Guidance

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### Container Disposal

Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

### RCRA Classification

Not Regulated under this Statute

# Material Safety Data Sheet

## OSPREY(TM) Herbicide

MSDS Number: 000000001991  
MSDS Version 2.2

### SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:  
Not regulated for transportation

FREIGHT CLASSIFICATION:  
Compounds, Tree or Weedkilling, N.O.I., other than poison, having a density of 20 LBS or greater per cubic foot

### SECTION 15. REGULATORY INFORMATION

EPA Registration No. 264-802

#### US Federal Regulations

##### TSCA list

Crystalline Silica (Quartz)	14808-60-7
Naphthalene	91-20-3

##### TSCA 12b export notification

None

##### SARA Title III - section 302 - notification and information

None

##### SARA Title III - section 313 - toxic chemical release reporting

Naphthalene	91-20-3	1.0%
-------------	---------	------

#### US States Regulatory Reporting

##### CA Prop65

This product does not contain any substances known to the State of California to cause reproductive harm.

#### US State right-to-know ingredients

Crystalline Silica (Quartz)	14808-60-7	IL, MA, MN, PA
Naphthalene	91-20-3	CA, CT, IL, MN, NJ, PA, RI

#### Canadian Regulations

##### Canadian Domestic Substance List

Crystalline Silica (Quartz)	14808-60-7
Naphthalene	91-20-3

#### Environmental

##### CERCLA

Naphthalene	91-20-3	100 lbs
-------------	---------	---------

##### Clean Water Section 307 Priority Pollutants

Naphthalene	91-20-3
-------------	---------

##### Safe Drinking Water Act Maximum Contaminant Levels

Naphthalene	91-20-3
-------------	---------

# Material Safety Data Sheet

## OSPREY(TM) Herbicide

MSDS Number: 000000001991

MSDS Version 2.2

### International Regulations

#### EU Classification

Naphthalene	91-20-3	Harmful Dangerous for the environment
R Phrases	Harmful if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
S Phrases	Keep out of the reach of children. Wear suitable protective clothing and gloves. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.	

#### European Inventory of Existing Commercial Substances (EINECS)

Crystalline Silica (Quartz)	14808-60-7
Naphthalene	91-20-3

### SECTION 16. OTHER INFORMATION

NFPA	Health	Flammability	Reactivity	Others
	2	2	1	

MSDS REVISION INDICATOR: Section 1, Product name change.

Approval Date: 04/27/2004

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