

# SAFETY DATA SHEET



## OSPREY® XTRA HERBICIDE

Version 2.0 / USA  
102000030357

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Revision Date: 01/10/2023  
Print Date: 01/18/2023

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

#### Product identifier

Trade name	OSPREY® XTRA HERBICIDE
Product code (UVP)	84422045
SDS Number	102000030357
EPA Registration No.	264-1195

#### Relevant identified uses of the substance or mixture and uses advised against

Use	Herbicide
Restrictions on use	See product label for restrictions.

#### Information on supplier

Supplier	Bayer CropScience LP 800 North Lindbergh Blvd. St. Louis, MO 63167 USA
Responsible Department	Email: SDSINFO.BCS-NA@bayer.com

#### Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577
Product Information Telephone Number	1-866-99BAYER (1-866-992-2937)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification in accordance with regulation HCS 29CFR §1910.1200

Eye irritation: Category 2B

#### Labelling in accordance with regulation HCS 29CFR §1910.1200

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.

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### Hazards Not Otherwise Classified (HNOC)

No other hazards not otherwise classified.  
No physical hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	27.0
Mefenpyr-diethyl	135590-91-9	11.25
Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	1322-93-6	6.0
Mesosulfuron-methyl	208465-21-8	4.50
Thiencarbazone-methyl	317815-83-1	1.50

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	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.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Call a physician or poison control center immediately.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Call a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. 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

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

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### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable** High volume water jet

**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 firefighters** In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** 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.  
Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

#### Specific hazards from the substance or mixture which can increase the fire

**Flash point** Not applicable  
**Auto-ignition temperature** 170 °C / 338 °F  
**Lower explosion limit** Not applicable  
**Upper explosion limit** Not applicable  
**Explosivity** Not explosive  
Regulation (EC) No. 440/2008, Annex, A.14

### 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 containment and cleaning up

**Methods for cleaning up** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

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**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** Avoid dust formation. Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Hygiene measures** 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. 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. Keep away from direct sunlight.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Mefenpyr-diethyl	135590-91-9	10 mg/m <sup>3</sup> (TWA)		OES BCS*
Mesosulfuron-methyl	208465-21-8	10 mg/m <sup>3</sup> (TWA)		OES BCS*
Thiencarbazone-methyl	317815-83-1	10 mg/m <sup>3</sup> (TWA)		OES BCS*

\*OES BCS: Internal Bayer AG, Crop Science Division "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

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based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

<b>Hand protection</b>	Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)
<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>General protective measures</b>	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

### Information on basic physical and chemical properties

<b>Form</b>	water-dispersible granules
<b>Colour</b>	brown
<b>Odour</b>	odourless
<b>Odour Threshold</b>	No data available
<b>pH</b>	7.5 - 9.5 (1 %) (23 °C) (deionized water)
<b>Melting point/range</b>	No data available
<b>Boiling Point</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Flammability</b>	does not ignite
<b>Auto-ignition temperature</b>	170 °C / 338 °F
<b>Thermal decomposition</b>	No data available
<b>Ignition temperature</b>	The product is not self-ignitable.
<b>Minimum ignition energy</b>	Not applicable
<b>Self-accelerating decomposition temperature (SADT)</b>	No data available
<b>Upper explosion limit</b>	Not applicable
<b>Lower explosion limit</b>	Not applicable
<b>Vapour pressure</b>	No data available
<b>Evaporation rate</b>	Not applicable
<b>Relative vapour density</b>	No data available

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<b>Relative density</b>	No data available
<b>Density</b>	No data available
<b>Bulk density</b>	0.62 g/ml (loose)
<b>Water solubility</b>	dispersible
<b>Partition coefficient: n-octanol/water</b>	Thiencarbazone-methyl: log Pow: -0.13 Mefenpyr-diethyl: log Pow: 3.83 (21 °C) Mesosulfuron-methyl: log Pow: -0.48
<b>Viscosity, dynamic</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Oxidizing properties</b>	No oxidizing properties
<b>Explosivity</b>	Not explosive Regulation (EC) No. 440/2008, Annex, A.14
<b>Other information</b>	Further safety related physical-chemical data are not known.

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## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Self heating</b>	not self-heating
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	No incompatible materials known.
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Ingestion, Eye contact, Skin contact, Inhalation
<b>Immediate Effects</b>	
<b>Eye</b>	May cause eye irritation.

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<b>Skin</b>	Not expected to produce significant adverse effects when recommended use instructions are followed.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Inhalation</b>	Not expected to produce significant adverse effects when recommended use instructions are followed.

### Information on toxicological effects

<b>Acute oral toxicity</b>	LD50 (Rat) > 5,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (Rat) > 5.09 mg/l Exposure time: 4 h Determined in the form of a respirable fine dust. highest concentration tested
<b>Acute dermal toxicity</b>	LD50 (Rat) > 5,000 mg/kg
<b>Skin corrosion/irritation</b>	Slight irritant effect - does not require labelling. (Rabbit)
<b>Serious eye damage/eye irritation</b>	Irritating to eyes. (Rabbit)
<b>Respiratory or skin sensitisation</b>	Skin: Non-sensitizing. (Mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

### Assessment STOT Specific target organ toxicity – single exposure

Thiencarbazone-methyl: Based on available data, the classification criteria are not met.  
Mefenpyr-diethyl: Based on available data, the classification criteria are not met.  
Mesosulfuron-methyl: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity – repeated exposure

Thiencarbazone-methyl did not cause specific target organ toxicity in experimental animal studies.  
Mefenpyr-diethyl did not cause specific target organ toxicity in experimental animal studies.  
Mesosulfuron-methyl did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

Thiencarbazone-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Mefenpyr-diethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Mesosulfuron-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Thiencarbazone-methyl was not carcinogenic in a lifetime feeding study in rats. Thiencarbazone-methyl caused at high dose levels an increased incidence of tumours in mice in the following organ(s): urinary bladder. The tumours seen with Thiencarbazone-methyl were caused through the chronic irritation due to the presence of bladder stones.  
Mefenpyr-diethyl was not carcinogenic in lifetime feeding studies in rats and mice.  
Mesosulfuron-methyl was not carcinogenic in lifetime feeding studies in rats and mice.

### ACGIH

None.

### NTP

None.

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### IARC

None.

### Assessment toxicity to reproduction

Thiencarbazone-methyl did not cause reproductive toxicity in a two-generation study in rats.  
Mefenpyr-diethyl did not cause reproductive toxicity in a two-generation study in rats.  
Mesosulfuron-methyl did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Thiencarbazone-methyl did not cause developmental toxicity in rats and rabbits.  
Mefenpyr-diethyl caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Mefenpyr-diethyl are related to maternal toxicity.  
Mesosulfuron-methyl did not cause developmental toxicity in rats and rabbits.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Further information

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

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## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient mesosulfuron-methyl.

LC50 (Oncorhynchus mykiss (rainbow trout)) > 104 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient thiencarbazone-methyl.

LC50 (Oncorhynchus mykiss (rainbow trout)) 4.2 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient mefenpyr-diethyl.

LC50 (Cyprinus carpio (Carp)) 2.4 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient mefenpyr-diethyl.

### Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 100 mg/l semi-static test;  
Exposure time: 48 h

### Toxicity to aquatic plants

ErC50 (Lemna gibba (gibbous duckweed)) 0.0183 mg/l  
semi-static test; Exposure time: 7 d

ErC50 (Raphidocelis subcapitata (freshwater green alga)) 52.9 mg/l  
Growth rate; Exposure time: 96 h



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<b>Biodegradability</b>	Thiencarbazone-methyl: Not rapidly biodegradable Mefenpyr-diethyl: Not rapidly biodegradable Mesosulfuron-methyl: Not rapidly biodegradable
<b>Koc</b>	Thiencarbazone-methyl: Koc: 100 Mefenpyr-diethyl: Koc: 625 Mesosulfuron-methyl: Koc: 92
<b>Bioaccumulation</b>	Thiencarbazone-methyl: Does not bioaccumulate. Mefenpyr-diethyl: Bioconcentration factor (BCF) 232 Does not bioaccumulate. Mesosulfuron-methyl: Does not bioaccumulate.
<b>Mobility in soil</b>	Thiencarbazone-methyl: Moderately mobile in soils Mefenpyr-diethyl: Slightly mobile in soils Mesosulfuron-methyl: Moderately mobile in soils
<b>Results of PBT and vPvB assessment</b>	
<b>PBT and vPvB assessment</b>	Thiencarbazone-methyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Mefenpyr-diethyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Mesosulfuron-methyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
<b>Additional ecological information</b>	No other effects to be mentioned.
<b>Environmental precautions</b>	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. Apply this product as specified on the label.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Product</b>	Dispose in accordance with all local, state/provincial and federal regulations.
<b>Contaminated packaging</b>	Consult state and local regulations regarding the proper disposal of container. Do not re-use empty containers.

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Triple rinse containers.  
Follow advice on product label and/or leaflet.

### 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.

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## SECTION 14: TRANSPORT INFORMATION

**49CFR** Not dangerous goods / not hazardous material

### IMDG

UN number **3077**  
Class 9  
Packaging group III  
Marine pollutant YES  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MESOSULFURON-METHYL, THIENCARBAZONE-METHYL, MIXTURE)

### IATA

UN number **3077**  
Class 9  
Packaging group III  
Environm. Hazardous Mark YES  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MESOSULFURON-METHYL, THIENCARBAZONE-METHYL, 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.

Freight Classification: COMPOUNDS, TREE OR WEED KILLING, N.O.I. other than poison, HAVING A DENSITY OF 20 LBS OR GREATER PER CUBIC FOOT

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## SECTION 15: REGULATORY INFORMATION

EPA Registration No. 264-1195

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### US Federal Regulations

#### TSCA list

Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5
Calcium carbonate	1317-65-3
Mefenpyr-diethyl	135590-91-9
Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	1322-93-6
Polyvinylpyrrolidone	9003-39-8
Starch	9005-25-8

#### US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

#### SARA Title III - Section 302 - Notification and Information

Not applicable.

#### SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

### US States Regulatory Reporting

#### CA Prop65

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

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Methanol	67-56-1	Developmental toxin.
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### US State Right-To-Know Ingredients

Calcium carbonate	1317-65-3	MN, RI
Synthetic amorphous silica	112926-00-8	CA, CT, MN, RI
Polyvinylpyrrolidone	9003-39-8	CA
Starch	9005-25-8	MN, RI

### Environmental

#### CERCLA

None.

#### Clean Water Section 307(a)(1)

None.

#### Safe Drinking Water Act Maximum Contaminant Levels

None.

### EPA/FIFRA Information:

This chemical is a pesticide product regulated 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:

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**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed.  
Causes moderate eye injury.

### SECTION 16: OTHER INFORMATION

#### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

#### NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Instability - 0      Others - none

#### HMIS (Hazardous Materials Identification System, based on the Fourth Edition Ratings Guide)

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard,  
\* = chronic health hazard

**Reason for Revision:** The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 11: Toxicological Information. Section 15: Regulatory information. Reviewed and updated for general editorial purposes.

**Revision Date:** 01/10/2023

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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