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# **OSPREY® HERBICIDE**

Version 5.0 / USA 102000011398

Revision Date: 02/27/2023 Print Date: 10/01/2024

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

**Product identifier** 

Trade name OSPREY® HERBICIDE

Product code (UVP) 06372902

**SDS Number** 102000011398

**EPA Registration No.** 264-802

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 Carcinogenicity: Category 1B

Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Danger

**Hazard statements** 



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Causes eye irritation. May cause cancer.

# **Precautionary statements**

Wash thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

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.

IF exposed or concerned: Get medical advice/ attention.

Store locked up.

Dispose of contents/container in accordance with local regulation.

#### **Hazards Not Otherwise Classified (HNOC)**

No physical hazards not otherwise classified.

No health hazards not otherwise classified.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Concentration % by weight
Mesosulfuron-methyl, sodium salt	208465-19-4	4.5
Mefenpyr-diethyl	135590-91-9	9.19
Hydrocarbons, C10-C13, aromatics, <1% naphthalene		16.9
Alkylated Naphthalene sulfonate, sodium salt	68425-94-5	10.2
Tetrapropylene benzene sulfonate, calcium salt	11117-11-6	1.05
Crystalline quartz (respirable)	14808-60-7	0.28
Naphthalene	91-20-3	0.17

#### **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.



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**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

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended.

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

**Extinguishing media** 

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

**Unsuitable** High volume water jet

Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Sulphur oxides, Hydrogen fluoride, Hydrogen chloride (HCl), Carbon monoxide (CO),

Carbon dioxide (CO2), Hydrogen cyanide (hydrocyanic acid)

Advice for firefighters

Special protective equipment for firefighters

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. In the event of fire and/or

explosion do not breathe fumes.

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.

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

Flash point

Auto-ignition temperature

Lower explosion limit

Upper explosion limit

No data available



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#### **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.

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

Avoid dust formation by friction.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Store in original container and out of the

reach of children, preferably in a locked storage area.

**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
Mesosulfuron-methyl,	208465-19-4	10 mg/m3		OES BCS*



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sodium salt		(TWA)		
Mefenpyr-diethyl	135590-91-9	10 mg/m3 (TWA)		OES BCS*
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (TWA PEL)	10 2016	US CA OEL
(Respirable dust.)				
Crystalline quartz (respirable)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
(Respirable.)				
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (TWA)	03 2016	OSHA
Crystalline quartz (respirable)	14808-60-7	0.025 mg/m3 (OSHA_ACT)	03 2016	OSHA
Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (REL)	2016	NIOSH
(Respirable dust.)  Crystalline quartz (respirable)  (Respirable.)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
Crystalline quartz (respirable)	14808-60-7	0.050 mg/m3 (TWA)	01 2019	TN OEL
(Respirable dust.) Crystalline quartz (respirable)	14808-60-7	0.05 mg/m3 (PEL)	03 2016	OSHA Z1
(Respirable dust.) Crystalline quartz (respirable)	14808-60-7	0.025 mg/m3 (TWA)	01 2022	ACGIH
(Respirable fraction.)				
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH
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		TN OEL
Naphthalene	91-20-3	50 mg/m3/10 ppm 06 2008 (TWA)		TN OEL
Naphthalene	91-20-3	0.5 mg/m3/0.1 ppm (TWA PEL)	10 2014	US CA OEL



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Naphthalene	91-20-3	10 ppm	OES BCS*
		(TLV)	

<sup>\*</sup>OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

# **Biological occupational exposure limits**

Components	CAS-No.	Parameters	Biological specimen	Sampling time	Conc.	Basis
Naphthalene	91-20-3	1-Naphthol, with hydrolysis + 2-Naphthol, with hydrolysis		Sampling time: End of shift.		ACGIH BEI

#### **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.

Hand protection Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile

rubber or Viton)

**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**

#### Information on basic physical and chemical properties

**Form** water-dispersible granules

ColourbrownOdouraromatic

Odour Threshold No data available

**pH** 7.3 - 9.3 (10 %) (23 °C) (deionized water)

Melting point/rangeNo data availableBoiling PointNo data availableFlash pointNo data available



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**Flammability** does not ignite **Auto-ignition temperature** No data available

Thermal decomposition from 220 °C Heating rate:5 K/min Decomposition energy:100 kJ/kg,

236 °C / 456.8 °F Ignition temperature Minimum ignition energy No data available Self-accelarating No data available

decomposition temperature

(SADT)

**Upper explosion limit** No data available Lower explosion limit No data available Vapour pressure No data available No data available **Evaporation rate** Relative vapour density No data available Relative density No data available **Density** No data available

0.613 - 0.719 g/ml (loose) **Bulk density** 

Water solubility dispersible

Partition coefficient: n-

octanol/water

Mesosulfuron-methyl: log Pow: -0.48

Mefenpyr-diethyl: log Pow: 3.83 (21 °C)

Viscosity, dynamic No data available No data available Viscosity, kinematic

**Burning number** 

CN3 Local combustion without spreading

Oxidizing properties No data available **Explosivity** Not explosive

Other information Further safety related physical-chemical data are not known.

#### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

**Chemical stability** Stable under recommended storage conditions.



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Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

**Conditions to avoid** Extremes of temperature and direct sunlight.

**Incompatible materials** No incompatible materials known.

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Ingestion, Inhalation, Eye contact, Skin contact

**Immediate Effects** 

**Eye** May cause temporary eye irritation. **Skin** May be harmful in contact with skin.

**Ingestion** May be harmful if swallowed.

**Inhalation** Not expected to produce significant adverse effects when

recommended use instructions are followed.

Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2,000 mg/kg
Acute inhalation toxicity LC50 (Rat) > 2.17 mg/l

Exposure time: 4 h

Highest attainable concentration.

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg

**Skin corrosion/irritation** Slight irritant effect - does not require labelling. (Rabbit)

Serious eve damage/eve

irritation

Moderate eye irritation. (Rabbit)

**Respiratory or skin** Skin: Non-sensitizing. (Guinea pig) **sensitisation** OECD Test Guideline 406, Buehler test

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

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

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

Mesosulfuron-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.

#### **Assessment mutagenicity**

Mesosulfuron-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.



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#### Assessment carcinogenicity

Mesosulfuron-methyl was not carcinogenic in lifetime feeding studies in rats and mice. Mefenpyr-diethyl was not carcinogenic in lifetime feeding studies in rats and mice.

Crystalline quartz (respirable) Group A2 14808-60-7 Group A3 Naphthalene 91-20-3

**NTP** 

Crystalline quartz (respirable) 14808-60-7 Naphthalene 91-20-3

**IARC** 

Crystalline quartz (respirable) 14808-60-7 Overall evaluation: 1 Naphthalene 91-20-3 Overall evaluation: 2B

# Assessment toxicity to reproduction

Mesosulfuron-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.

#### Assessment developmental toxicity

Mesosulfuron-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.

#### **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).

#### **SECTION 12: ECOLOGICAL INFORMATION**

Toxicity to fish (Oncorhynchus mykiss (rainbow trout)) 5.7 mg/l

Exposure time: 96 h

Test conducted with a similar formulation. (Daphnia magna (Water flea)) 1.5 mg/l

Toxicity to aquatic

Exposure time: 48 h

invertebrates

Test conducted with a similar formulation.

(Raphidocelis subcapitata (freshwater green alga)) 15.7 mg/l Toxicity to aquatic plants

Exposure time: 72 h

Test conducted with a similar formulation.

Biodegradability Mesosulfuron-methyl:

Not rapidly biodegradable

Mefenpyr-diethyl:



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Not rapidly biodegradable

**Koc** Mesosulfuron-methyl: Koc: 92

Mefenpyr-diethyl: Koc: 625

**Bioaccumulation** Mesosulfuron-methyl:

Does not bioaccumulate.

Mefenpyr-diethyl: Bioconcentration factor (BCF) 232

Does not bioaccumulate.

Mobility in soil Mesosulfuron-methyl: Moderately mobile in soils

Mefenpyr-diethyl: Slightly mobile in soils

Results of PBT and vPvB assessment

PBT and vPvB assessment 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).

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).

Additional ecological

information

No further ecological information is available.

**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 apply when weather conditions favor runoff or drift.

Do not contaminate surface or ground water by cleaning equipment or

disposal of wastes, including equipment wash water.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Product** Do not allow to get into surface water, drains and ground water.

Dispose in accordance with all local, state/provincial and federal

regulations.

**Contaminated packaging** Consult state and local regulations regarding the proper disposal of

container.

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.

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

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

**IMDG** 



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UN number 3077
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC 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, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC 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** 

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

**EPA Registration No.** 264-802

**US Federal Regulations** 

**TSCA list** 

Kaolin 1332-58-7 Alkylated Naphthalene sulfonate, sodium 68425-94-5

salt

Mefenpyr-diethyl 135590-91-9
Polyvinylpyrrolidone 9003-39-8
Water 7732-18-5
Butoxypolyethylene-/propylene glycol 9038-95-3

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



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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.

Crystalline quartz (respirable)

Methanol

One of the reproductive harm. For more information go to www.P65Warnings.ca.gov.

14808-60-7

Carcinogenic.

Developmental toxin.

**US State Right-To-Know Ingredients** 

Kaolin 1332-58-7 MN, RI

Synthetic amorphous silica 112926-00-8 CA, CT, MN, RI

Polyvinylpyrrolidone 9003-39-8 CA Perlite 93763-70-3 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:

Signal word: Caution!

**Hazard statements:** Harmful if swallowed or absorbed through skin.

Causes moderate eye irritation.

#### **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



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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 - 2 Flammability - 0 Instability - 0 Others - none

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

Health - 1\* Flammability - 0 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 2: Hazards Identification.

Reviewed and updated for general editorial purposes.

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

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