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

Product identifier
Trade name: OUST® XP HERBICIDE
Product code (UVP): 84119822
SDS Number: 102000030326
EPA Registration No.: 432-1552

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 Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Email: SDSINFO.BCS-NA@bayer.com

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200
This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards
Dust may form explosive mixture in air.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name | CAS-No. | Concentration % by weight
----------------------------|---------|------------------------
SULFOMETURON METHYL | 74222-97-2 | 75.0
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
Ingestion may provoke the following symptoms: Tiredness, Rapid pulse, Dizziness, Shortness of breath, Jaundice

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. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

 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 fire-fighters
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. Whenever possible,
contain fire-fighting water by diking area with sand or earth.

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 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. 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
Ensure adequate 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. Dust may form explosive mixture in air.

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 original container and out of the reach of children, preferably in a locked storage area. 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. Keep away from direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
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<tr>
<td>SULFOMETURON METHYL</td>
<td>74222-97-2</td>
<td>5 mg/m³ (TWA)</td>
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<td>ACGIH</td>
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<tr>
<td>SULFOMETURON METHYL</td>
<td>74222-97-2</td>
<td>50ug/m³ (ST ESL)</td>
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<td>TX ESL</td>
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<tr>
<td>SULFOMETURON METHYL</td>
<td>74222-97-2</td>
<td>5ug/m³ (AN ESL)</td>
<td>07 2011</td>
<td>TX ESL</td>
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<tr>
<td>SULFOMETURON METHYL</td>
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<td>3.5 mg/m³ (TWA PEL)</td>
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<td>US CA OEL</td>
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<td>Lactose</td>
<td>64044-51-5</td>
<td>10ug/m³ (AN ESL)</td>
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<td>TX ESL</td>
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<tr>
<td>Lactose</td>
<td>64044-51-5</td>
<td>100ug/m³ (ST ESL)</td>
<td>07 2011</td>
<td>TX ESL</td>
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<tr>
<td>Trisodium orthophosphate</td>
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<td>50ug/m³ (ST ESL)</td>
<td>03 2014</td>
<td>TX ESL</td>
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<tr>
<td>Trisodium orthophosphate</td>
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<td>TX ESL</td>
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<td>Trisodium orthophosphate</td>
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<td>5 mg/m³ (STEL)</td>
<td>2012</td>
<td>WEEL</td>
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</tbody>
</table>

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 nitrile rubber gloves

Eye protection
Safety glasses with side-shields

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

Appearance              white to beige
Physical State          granular
Odor                    slight
Odour Threshold         no data available
pH                      7.8 at 1 %
                        (as aqueous solution)
Vapor Pressure          no data available
Vapor Density (Air = 1)  no data available
Density                 ca. 0.64 g/ml
Bulk density            39 lb/ft³ (bulk density tapped)
Evaporation rate        not applicable
Boiling Point           not applicable
Melting / Freezing Point not applicable
Water solubility        dispersible
Minimum Ignition Energy no applicable
Decomposition temperature no data available
Partition coefficient: n-octanol/water not applicable
Viscosity               not applicable
Flash point             not applicable
Autoignition temperature no data available
Lower explosion limit   not applicable
Upper explosion limit   not applicable
Explosivity             no data available

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.
SECTION 11: TOXICOLOGICAL INFORMATION

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

**Immediate Effects**
- **Eye**: May cause redness, irritation, tearing.
- **Skin**: May cause slight irritation.

**Information on toxicological effects**
- **Acute oral toxicity**: LD50 (rat) > 5,000 mg/kg
- **Acute inhalation toxicity**: LC50 (rat) > 5.3 mg/l
  Exposure time: 4 h
- **Acute dermal toxicity**: LD50 (rabbit) > 5,000 mg/kg
- **Skin irritation**: Slight irritation (rabbit)
- **Eye irritation**: Slight irritation (rabbit)
- **Sensitisation**: Non-sensitizing. (guinea pig)

**ACGIH**
- SULFOMETURON METHYL
- 74222-97-2
- Group A4

**NTP**
None.

**IARC**
None.

**OSHA**
None.

**Further information**
Only acute toxicity studies have been performed on the formulated product.

SECTION 12: ECOLOGICAL INFORMATION

**Chronic toxicity to fish**
- Oncorhynchus mykiss (rainbow trout)
- LC50: > 148 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient sulfometuron methyl.

Lepomis macrochirus (Bluegill sunfish)
LC50: > 150 mg/l
Exposure time: 96 d
The value mentioned relates to the active ingredient sulfometuron methyl.

**Chronic toxicity to aquatic invertebrates**
EC50 (Daphnia (water flea)): 150 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient sulfometuron methyl.

**Toxicity to aquatic plants**
EC50 (Raphidocelis subcapitata (freshwater green alga)): 0.0046 mg/l
Exposure time: 120 h
The value mentioned relates to the active ingredient sulfometuron methyl.

**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.
Drift or runoff from treated areas may adversely affect non-target plants.
Apply this product as specified on the label.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Product**
Do not contaminate water, food, or feed by disposal.
Dispose of unused product by incineration at a licensed incineration plant, in accordance with all applicable national and local 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.

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**SECTION 14: TRANSPORT INFORMATION**

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

**IMDG**

<table>
<thead>
<tr>
<th>UN number</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>3077</td>
<td>9</td>
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</tbody>
</table>
Packaging group: III  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SULFOMETURON 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. (SULFOMETURON 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.

SECTION 15: REGULATORY INFORMATION

EPA Registration No.: 432-1552  
US Federal Regulations: None.  
TSCA list: None.  
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D): None.  
SARA Title III - Section 302 - Notification and Information: None.  
SARA Title III - Section 313 - Toxic Chemical Release Reporting: None.  
US States Regulatory Reporting: None.  
CA Prop65: This product does not contain any substances known to the State of California to cause cancer.

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

US State Right-To-Know Ingredients: None.  

Canadian Regulations: None.  
Canadian Domestic Substance List: None.

Environmental CERCLA: None.  
Clean Water Section 307 Priority Pollutants: None.
None.

**Safe Drinking Water Act Maximum Contaminant Levels**
None.

**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:** Caution!

**Hazard statements:**
Moderate eye irritation.
Avoid contact with skin, eyes and clothing.

---

**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>49CFR</td>
<td>Code of Federal Regulations, Title 49</td>
</tr>
<tr>
<td>ACGIH</td>
<td>US. ACGIH Threshold Limit Values</td>
</tr>
<tr>
<td>CAS-Nr.</td>
<td>Chemical Abstracts Service number</td>
</tr>
<tr>
<td>EINECS</td>
<td>European inventory of existing commercial substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European list of notified chemical substances</td>
</tr>
<tr>
<td>IARC</td>
<td>US. IARC Monographs on Occupational Exposures to Chemical Agents</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
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<tr>
<td>N.O.S.</td>
<td>Not otherwise specified</td>
</tr>
<tr>
<td>NTP</td>
<td>US. National Toxicology Program (NTP) Report on Carcinogens</td>
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<tr>
<td>OECD</td>
<td>Organization for Economic Co-operation and Development</td>
</tr>
<tr>
<td>TDG</td>
<td>Transportation of Dangerous Goods</td>
</tr>
<tr>
<td>TWA</td>
<td>Time weighted average</td>
</tr>
<tr>
<td>UN</td>
<td>United Nations</td>
</tr>
<tr>
<td>WHO</td>
<td>World health organisation</td>
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</table>

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Others</th>
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<tbody>
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<td>Health</td>
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<td>0</td>
<td>none</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Field</th>
<th>Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>PPE</th>
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<tbody>
<tr>
<td>Health</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** New Safety Data Sheet.

**Revision Date:** 09/02/2015

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
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