



Conforms to HazCom 2012/United States

# SAFETY DATA SHEET



## Oasis®

### Herbicide

#### Section 1. Identification

GHS product identifier : Oasis® Herbicide

**Recommended use of the chemical and restriction on use**

Recommended use\* : Herbicide

\* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Supplier's details**

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Emergency telephone number : INFOTRAC - 24-hour service 1-800-535-5053

**Other means of identification**

Substance number : 104631  
EPA Registration number : 7696-287-67690  
Molecular formula : C<sub>16</sub> H<sub>17</sub> N<sub>3</sub> O<sub>5</sub> S  
Chemical family : phenyl pyrazole, derivative  
Synonyms : topramezone

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

#### Section 2. Hazards identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

**Classification of the product**

Repr.	1B (unborn child)	Reproductive toxicity
Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	1	Hazardous to the aquatic environment - chronic

**Label elements**

Pictogram:



Signal Word:

Danger

Hazard Statement

H360 May damage the unborn child.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements  
(Prevention):

P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.

Precautionary Statements  
(Response):

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.  
 P391 Collect spillage

Precautionary Statements  
(Storage):

P405 Store locked up.

Precautionary Statements  
(Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

**Hazards not otherwise classified****Labeling of special preparations (GHS):**

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 12 % Inhalation - vapor

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 12 % Inhalation - mist

Product contains the following components and may cause an allergic skin reaction:  
 Preparation based on isothiazolone

**According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200****Emergency overview**

CAUTION:  
 May cause moderate but temporary irritation to the eyes.  
 HARMFUL IF SWALLOWED.  
 HARMFUL IF ABSORBED THROUGH SKIN.  
 KEEP OUT OF REACH OF CHILDREN.  
 Avoid contact with the skin, eyes and clothing.

## Section 3. Composition/information on ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
210631-68-8	29.7 %	Topramenzone

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
210631-68-8	29.7 %	Topramenzone
	70.3 %	Proprietary ingredients

## Section 4. First aid measures

### Description of first aid measures

<b>General advice:</b>	First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.
<b>If inhaled:</b>	Keep patient calm, remove to fresh air, seek medical attention.
<b>If on skin:</b>	Immediately wash thoroughly with soap and water, seek medical attention.
<b>If in eyes:</b>	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
<b>If swallowed:</b>	Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

### Indication of any immediate medical attention and special treatment needed

Note to physician: Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## Section 5. Fire-fighting measures

**Extinguishing media** Suitable extinguishing media: Foam, dry powder, carbon dioxide, water spray

### Special hazards arising from the substance or mixture

Hazards during fire-fighting: Carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Sulphur dioxide, Hydrogen chloride, hydrogen fluoride, halogenated hydrocarbons, Hydrocarbons.

If product is heated above decomposition temperature, toxic vapors will be released. The substances/groups of substances mentioned can be released in case of fire.



**Advice for fire-fighters** Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:** Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

## Section 6. Accidental release measures

**Personal precautions:** Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

**Environmental precautions:** Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

**Methods and material for containment and cleaning up:** Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

## Section 7. Handling and storage

**Precautions for safe handling** RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapors. Wear suitable personal protective clothing and equipment.

**Protection against fire and explosion:**

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear.

Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

**Conditions for safe storage, including any incompatibilities**

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

Protect from temperatures below: 0 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## Section 8. Exposure controls/personal protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

**Advice on system design:** Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### Personal protective equipment

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

**Respiratory protection:** Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

**Hand protection:** Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

**Eye protection:** Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

**Body protection:** Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

**General safety and hygiene measures:** Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

## Section 9. Physical and chemical properties

Form:	suspension
Odor:	aromatic
Odor threshold:	Not determined due to potential health hazard by inhalation
Color:	beige
pH value:	approx. 3 – 5 (1 %(m), 20 °C)



Boiling point:	approx. 100 °C
Flash point:	(Directive 92/69/EEC, A.9). No flash point – Measurement made up to the boiling point.
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Autoignition:	430 °C
Vapor pressure:	approx. 23.3 hPa (20 °C) Information applies to the solvent.
Density:	approx. 1.13 g/cm <sup>3</sup> (20 °C) approx. 9.4303 Lb/USg (68 °F)
Vapor density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Thermal decomposition:	carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Sulphur dioxide, Hydrocarbons. Stable at ambient temperatures. If product is heated above decomposition temperature toxic vapors may be released.
Viscosity, dynamic:	approx. 65.7 mPa.s (20 °C)
Solubility in water:	dispersable
Molar mass:	363.4 g/mol
Evaporation rate:	not applicable
Other information:	The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. If necessary, information on other physical and chemical parameters is indicated in this section.

## Section 10. Stability and reactivity

<b>Reactivity</b>	No hazardous reactions if stored and handled as prescribed/indicated.
Corrosion to metals:	Corrosive effects to metal are not anticipated.
Oxidizing properties:	Not an oxidizer.
<b>Chemical stability</b>	The product is stable if stored and handled as prescribed/indicated.
<b>Possibility of hazardous reactions</b>	The product is chemically stable.  Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.
<b>Conditions to avoid</b>	Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge. Avoid prolonged storage. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.
<b>Incompatible materials</b>	strong acids, strong bases, strong oxidizing agents
<b>Hazardous decomposition products</b>	
Decomposition products:	No hazardous decomposition products if stored and handled as prescribed/indicated. Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition: Possible thermal decomposition products: carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Sulphur dioxide, Hydrocarbons  
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapors may be released.

## Section 11. Toxicological information

**Primary routes of exposure** Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

Acute toxicity Assessment of acute toxicity: Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Slightly toxic after short-term inhalation.

Oral Type of value: LD50  
Species: rat (male/female)  
Value: > 2,000 mg/kg (OECD Guideline 423)  
No mortality was observed.

Inhalation Type of value: LC50  
Species: rat (male/female)  
Value: > 5.8 mg/l (OECD Guideline 403)  
Exposure time: 4 h  
An aerosol was tested.  
No mortality was observed.

Dermal Type of value: LD50  
Species: rat (male/female)  
Value: > 4,000 mg/kg (OECD Guideline 402)

Irritation / corrosion Assessment of irritating effects: May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

Skin May cause slight irritation to the skin.

Eye May cause moderate but temporary irritation to the eyes.

Sensitization Assessment of sensitization: There is no evidence of a skin-sensitizing potential.  
Mouse Local Lymph Node Assay (LLNA)  
Species: mouse  
Result: Skin sensitizing effects were not observed in animal studies.  
Method: OECD Guideline 429

### Chronic Toxicity/Effects

Repeated dose toxicity Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Topramezone technical: Assessment of repeated dose toxicity: Adaptive effects were observed after repeated exposure in animal studies.*

<u>Genetic toxicity</u>	Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.
<u>Carcinogenicity</u>	Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.
<u>Reproductive toxicity</u>	Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.
<u>Teratogenicity</u>	Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.  <i>Information on: Topramezone: Assessment of teratogenicity: The results of animal studies gave indication of a developmental toxic/teratogenic effects with high doses.</i>
<b>Symptoms of Exposure</b>	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.
<u>Medical conditions aggravated by overexposure</u>	Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

## Section 12. Ecological information

### Toxicity

Aquatic toxicity	Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to fish. There is a high probability that the product is not acutely harmful to aquatic invertebrates. Very toxic (acute effect) to aquatic plants.
<u>Aquatic invertebrates</u>	EC50 (96 h) 5.2 mg/l, <i>Americamysis bahia</i>
<u>Toxicity to fish</u>	<i>Information on: Topramezone</i> LC50 (96 h) > 100 mg/l, <i>Oncorhynchus mykiss</i>
<u>Aquatic invertebrates</u>	<i>Information on: Topramezone</i> EC50 (48 h) > 100 mg/l, <i>Daphnia magna</i>
<u>Aquatic plants</u>	<i>Information on: Topramezone</i> EC50 (96 h) 67.7 mg/l (growth rate), <i>Pseudokirchneriella subcapitata</i>
<u>Assessment of terrestrial toxicity</u>	With high probability not acutely harmful to terrestrial organisms.
<b>Bioaccumulative potential</b>	
<u>Bioaccumulation potential</u>	<i>Information on: Topramezone technical</i> Bioconcentration factor: 0.69 (42 d), <i>Lepomis macrochirus</i> Does not significantly accumulate in organisms.



**Mobility in soil**

Assessment transport between environmental compartments: The product has not been tested. The statement has been derived from the properties of the individual components.  
*Information on: Topramezone technical: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.*

**Additional information**

Other ecotoxicological advice: The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

## Section 13. Disposal considerations

**Waste disposal of substance:** Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container disposal:**

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**RCRA:**

This product is not regulated by RCRA.

## Section 14. Transport information

**Land transport**

USDOT  
Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains TOPRAMEZONE)

**Air transport**

IATA/ICAO  
Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains TOPRAMEZONE)

## Section 15. Regulatory information

**Federal Regulations****Registration status:**

Crop Protection TSCA, US released / exempt



Chemical TSCA, US blocked / not listed

EPCRA 311/312  
(Hazard categories): Acute

#### State regulations

CA Prop. 65: CA PROP 65: An assessment has determined that there is no significant risk present.

NFPA Hazard codes: Health: 1 Fire: 1 Reactivity: 1 Special:

#### Labeling requirements under FIFRA

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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION:  
May cause moderate but temporary irritation to the eyes.  
HARMFUL IF SWALLOWED.  
HARMFUL IF ABSORBED THROUGH SKIN.  
KEEP OUT OF REACH OF CHILDREN.  
Avoid contact with the skin, eyes and clothing.

## Section 16. Other information

SDS Prepared by: SePRO Corporation

SDS Prepared on: 07/24/15

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.