SECTION 1. IDENTIFICATION

Product name: CIVITAS TURF DEFENSE™/MC Ready-2-Mix
Product code: CVTASP5U, CVTASIBC, CVTASDRU, CVTAS, CVTASDR3

Manufacturer or supplier’s details
Intelligro™, a Suncor Energy business
2310 Lakeshore Road West
Mississauga ON L5J 1K2
Canada

Emergency telephone number
Suncor Energy: +1 403-296-3000;
Poison Control Centre: Consult local telephone directory for emergency number(s).

Recommended use of the chemical and restrictions on use
Recommended use: Fungicide and Insecticide for Turf.
EPA Registration Number: 69526-13

Prepared by
Product Safety: +1 905-804-4752

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Clear and bright</td>
</tr>
<tr>
<td>Odour</td>
<td>No odour or slight petroleum oil like.</td>
</tr>
</tbody>
</table>

GHS Classification
Aspiration hazard: Category 1

This product is an EPA FIFRA registered pesticide. Some of the classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

GHS Label element
Hazard pictograms: 

Intelligro™ is a Suncor Energy business. TM Trademark of Suncor Energy Inc. Used under licence.
Signal word: Danger

Hazard statements: May be fatal if swallowed and enters airways.

Precautionary statements:
Response:
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.

Storage:
Store locked up.

Disposal:
Dispose of contents/container to an approved waste disposal plant.

Potential Health Effects
Primary Routes of Entry:
- Eye contact
- Ingestion
- Inhalation
- Skin contact

Aggravated Medical Condition: None known.

Other hazards
None known.

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum)</td>
<td>8042-47-5</td>
<td>90 - 100 %</td>
</tr>
<tr>
<td>Alcohols C12-C15 ethoxylated</td>
<td>9002-92-0</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

If inhaled: Move to fresh air.
Artificial respiration and/or oxygen may be necessary. Seek medical advice.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Seek medical advice.

In case of eye contact: Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

If swallowed: Rinse mouth with water. 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. Seek medical advice.

Most important symptoms and effects, both acute and delayed: First aider needs to protect himself.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No information available.

Specific hazards during firefighting: Cool closed containers exposed to fire with water spray.

Hazardous combustion products: Carbon oxides (CO, CO2), smoke and irritating vapours as products of incomplete combustion.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.

Environmental precautions: Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up:
- Prevent further leakage or spillage if safe to do so.
- Remove all sources of ignition.
- Soak up with inert absorbent material.
- Non-sparking tools should be used.
- Ensure adequate ventilation.
- Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling:
- For personal protection see section 8.
- Smoking, eating and drinking should be prohibited in the application area.
- Use only with adequate ventilation.
- In case of insufficient ventilation, wear suitable respiratory equipment.
- Avoid contact with skin, eyes and clothing.
- Do not ingest.
- Keep away from heat and sources of ignition.
- Keep container closed when not in use.

Conditions for safe storage:
- Store in original container.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Keep in a dry, cool and well-ventilated place.
- Keep in properly labelled containers.
- To maintain product quality, do not store in heat or direct sunlight.
- Protect from freeze.
- If product falls below 40°F (5°C), then you can expect a slightly hazy appearance which will disappear once the product is brought above this temperature.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters:
Contains no substances with occupational exposure limit values.

Engineering measures:
- No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment:
Respiratory protection:
- Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
- Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Filter type:
- organic vapour filter

Hand protection:
Material:
- neoprene, nitrile, polyvinyl alcohol (PVA), Viton(R).
Remarks: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures: Wash contaminated clothing before re-use. No special protective equipment required.

Hygiene measures: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid

Colour: Clear and bright

Odour: No odour or slight petroleum oil like.

Odour Threshold: No data available

pH: No data available

Pour point: No data available

Boiling point/boiling range: No data available

Flash point: > 93.3 °C (199.9 °F)

Method: Open cup

Fire Point: No data available

Auto-Ignition Temperature: No data available

Evaporation rate: No data available

Flammability: Low fire hazard. This material must be heated before ignition will occur.

Upper explosion limit: No data available

Lower explosion limit: No data available

Vapour pressure: No data available

Relative vapour density: No data available

Density: 0.8245 kg/l (15 °C / 59 °F)

Solubility(ies)
Water solubility: No data available
Partition coefficient: n-octanol/water: No data available

Viscosity
Viscosity, kinematic: 9.8 cSt (40 °C / 104 °F)

Explosive properties: Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions: Hazardous polymerisation does not occur. Stable under normal conditions.
Conditions to avoid: No data available
Incompatible materials: Reactive with oxidising agents.
Hazardous decomposition products: May release COx, smoke and irritating vapours when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Eye contact
Ingestion
Inhalation
Skin contact

Acute toxicity

Product:
Acute oral toxicity: Remarks: No data available
Acute inhalation toxicity: Remarks: No data available
Acute dermal toxicity: Remarks: No data available

Components:
White mineral oil (petroleum):
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg,
Acute inhalation toxicity: LC50 (Rat): > 5.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg,
Alcohols C12-C15 ethoxylated:
Acute oral toxicity : LD50 (Rat): 8,600 mg/kg,
                    LD50 (Mouse): 3,500 mg/kg,

Skin corrosion/irritation

Product: Remarks: No data available

Serious eye damage/eye irritation

Product: Remarks: No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

Reproductive toxicity
No data available

STOT - single exposure
No data available

STOT - repeated exposure
No data available

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product: Remarks: No data available

Toxicity to fish
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates
Remarks: No data available

Toxicity to algae
Remarks: No data available

Toxicity to bacteria
Remarks: No data available
Persistence and degradability

**Product:**

- Biodegradability: Remarks: No data available

Bioaccumulative potential

- No data available

Mobility in soil

- No data available

Other adverse effects

- No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues: The product should not be allowed to enter drains, water courses or the soil. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste must be classified and labelled prior to recycling or disposal. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation

- IATA-DGR: Not regulated as a dangerous good

- IMDG-Code: Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- Not applicable for product as supplied.

National Regulations

- 49 CFR: Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

The components of this product are reported in the following inventories:
**SAFETY DATA SHEET**

**CIVITAS TURF DEFENSE™/™MC Ready-2-Mix**

000003000032

**Version 4.0**

**DSL TSCA**  
On the inventory, or in compliance with the inventory  
All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**EINECS**  
On the inventory, or in compliance with the inventory

**Labeling requirements under FIFRA**  
This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**CAUTION**  
Harmful if swallowed.  
Harmful if absorbed through skin.

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### SECTION 16. OTHER INFORMATION

#### Further information

**NFPA:**

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Special hazard.

#### HMIS III:

<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>B</td>
</tr>
</tbody>
</table>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High,  
4 = Extreme, * = Chronic

For Copy of (M)SDS: United States, telephone: 1-800-268-5850; fax: 1-800-201-6285  
For Product Safety Information: 1 905-804-4752

Prepared by: Product Safety: +1 905-804-4752  
Revision Date: 2016/02/08

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