



**OLYMPUS™ 70% WATER DISPERSIBLE GRANULAR  
HERBICIDE**

Version 3.0 / USA  
102000011542

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Revision Date: 01/27/2015  
Print Date: 01/27/2015

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

**Product identifier**

**Trade name** OLYMPUS™ 70% WATER DISPERSIBLE GRANULAR HERBICIDE  
**Product code (UVP)** 06357164  
**SDS Number** 102000011542  
**EPA Registration No.** 264-809

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

**Use** Herbicide  
**Restrictions on use** See product label for restrictions.

**Information on manufacturer**

Bayer CropScience  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

**Emergency telephone no.**

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

No particular hazards known.

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

| <b>Hazardous Component Name</b> | <b>CAS-No.</b> | <b>Concentration % by weight</b> |
|---------------------------------|----------------|----------------------------------|
| Propoxycarbazone-sodium         | 181274-15-7    | 70.00                            |



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**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>   | 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.   |
| <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** No symptoms known or expected.

**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.

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**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

|                   |  |
|-------------------|--|
| <b>Suitable</b>   | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| <b>Unsuitable</b> | High volume water jet  |

**Special hazards arising from the substance or mixture** In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Sulphur oxides, Nitrogen oxides (NOx)

**Advice for firefighters**

**Special protective equipment for fire-fighters** In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

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



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|                                 |  |
|---------------------------------|--|
|                                 | Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. |
| <b>Flash point</b>              | not applicable   |
| <b>Autoignition temperature</b> | no data available  |
| <b>Lower explosion limit</b>    | no data available  |
| <b>Upper explosion limit</b>    | no data available  |
| <b>Explosivity</b>              | Not explosive<br>92/69/EEC, A.14 / OECD 113  |

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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. 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.

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**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation. For personal protection see section 8.

**Advice on protection against fire and explosion** No special precautions required.

**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. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.



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**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.

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

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

| Components              | CAS-No.     | Control parameters | Update | Basis    |
|-------------------------|-------------|--------------------|--------|----------|
| Propoxycarbazone-sodium | 181274-15-7 | 10 mg/m3<br>(TWA)  |        | OES BCS* |

\*OES BCS: Internal Bayer CropScience "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 based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Hand protection** Chemical resistant gloves made of waterproof material such as polyethylene or polyvinyl chloride

**Eye protection** 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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** tan  
**Physical State** granular  
**Odor** weak characteristic  
**Odour Threshold** no data available  
**pH** 7.5 - 9.0 at 10 % (23 °C) (deionized water)  
**Vapor Pressure** no data available



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|   |  |
|---|--|
| <b>Vapor Density (Air = 1)</b>                | no data available  |
| <b>Bulk density</b>                           | 0.548 - 0.643 g/ml (loose)                                   |
| <b>Evaporation rate</b>                       | not applicable   |
| <b>Boiling Point</b>                          | no data available  |
| <b>Melting / Freezing Point</b>               | from 160 °C / 320 °F   |
| <b>Water solubility</b>                       | ca. 42 g/l   |
| <b>Minimum Ignition Energy</b>                | no data available  |
| <b>Decomposition temperature</b>              | > 175 °C , Heating rate: 3 K/min Exothermic decomposition.   |
| <b>Partition coefficient: n-octanol/water</b> | not applicable   |
| <b>Viscosity</b>                              | no data available  |
| <b>Flash point</b>                            | not applicable   |
| <b>Autoignition temperature</b>               | no data available  |
| <b>Lower explosion limit</b>                  | no data available  |
| <b>Upper explosion limit</b>                  | no data available  |
| <b>Explosivity</b>                            | Not explosive<br>92/69/EEC, A.14 / OECD 113                  |
| <b>Other information</b>                      | Further safety related physical-chemical data are not known. |

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**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

|   |  |
|---|--|
| <b>Thermal decomposition</b>              | > 175 °C, Heating rate: 3 K/min<br>Exothermic decomposition.                         |
| <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 data available  |
| <b>Hazardous decomposition products</b>   | No decomposition products expected under normal conditions of use.                   |

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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

**Immediate Effects**

**Ingestion** Harmful if swallowed.

**Information on toxicological effects**

**Acute oral toxicity** LD50 (male/female combined rat) > 2,000 mg/kg

**Acute inhalation toxicity** LC50 (male/female combined rat) > 4.995 mg/l  
Exposure time: 4 h  
Determined in the form of dust.  
(actual)

LC50 (male/female combined rat) > 19.98 mg/l  
Exposure time: 1 h  
Determined in the form of dust.  
Extrapolated from the 4 hr LC50.  
(actual)

**Acute dermal toxicity** LD50 (male/female combined rat) > 2,000 mg/kg

**Skin irritation** No skin irritation (rabbit)  
Information given is based on data obtained from similar substances.

**Eye irritation** Minimally irritating. (rabbit)

**Sensitisation** Non-sensitizing. (guinea pig)  
OECD Test Guideline 406, Buehler test  
Information given is based on data obtained from similar substances.

**Assessment repeated dose toxicity**

Propoxycarbazone-sodium did not cause specific target organ toxicity in experimental animal studies.

**Assessment Mutagenicity**

Propoxycarbazone-sodium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**

Propoxycarbazone-sodium was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**



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None.

**Assessment toxicity to reproduction**

Propoxycarbazone-sodium did not cause reproductive toxicity in a two-generation study in rats.

**Assessment developmental toxicity**

Propoxycarbazone-sodium did not cause developmental toxicity in rats. Propoxycarbazone-sodium caused developmental toxicity in rabbits only at dose levels toxic to the dams. The developmental effects seen with Propoxycarbazone-sodium are related to maternal toxicity.

**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**

|  |   |
|--|---|
| <b>Toxicity to fish</b>                  | LC50 (Oncorhynchus mykiss (rainbow trout)) > 77.6 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient.  |
| <b>Toxicity to aquatic invertebrates</b> | EC50 (Daphnia magna (Water flea)) > 107 mg/l<br>Exposure time: 48 h<br>The value mentioned relates to the active ingredient.  |
| <b>Toxicity to aquatic plants</b>        | EC50 (Selenastrum capricornutum) > 113.4 mg/l<br>Exposure time: 72 h<br>Test conducted with a similar formulation.<br>EC50 (Lemna gibba (duckweed)) 0.0158 mg/l<br>Exposure time: 7 d<br>Test conducted with a similar formulation.   |
| <b>Biodegradability</b>                  | Propoxycarbazone-sodium: ; not rapidly biodegradable  |
| <b>Koc</b>                               | Propoxycarbazone-sodium: Koc: 29  |
| <b>Bioaccumulation</b>                   | Propoxycarbazone-sodium: ; Does not bioaccumulate.  |
| <b>Mobility in soil</b>                  | Propoxycarbazone-sodium: Mobile in soils  |
| <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.<br>Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.<br>Do not apply when weather conditions favor runoff or drift.<br>Drift or runoff from treated areas may adversely affect non-target plants.<br>Apply this product as specified on the label. |



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**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

|                               |   |
|-------------------------------|---|
| <b>Product</b>                | In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. |
| <b>Contaminated packaging</b> | Triple rinse containers.<br>Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.<br>If burned, stay out of smoke.<br>Follow advice on product label and/or leaflet.  |
| <b>RCRA Information</b>       | 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**

|                          |   |
|--------------------------|---|
| <b>49CFR</b>             | Not dangerous goods / not hazardous material  |
| <b>IMDG</b>              |   |
| UN number                | <b>3077</b>   |
| Class                    | 9   |
| Packaging group          | III   |
| Marine pollutant         | YES   |
| Proper shipping name     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S.<br>(PROPOXYCARBAZONE-SODIUM MIXTURE)  |
| <b>IATA</b>              |   |
| UN number                | <b>3077</b>   |
| Class                    | 9   |
| Packaging group          | III   |
| Environm. Hazardous Mark | YES   |
| Proper shipping name     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S.<br>(PROPOXYCARBAZONE-SODIUM 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





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requirements.

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

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**SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 264-809

**US Federal Regulations**

**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**

**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**

**Canadian Domestic Substance List**

None.

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

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:



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**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed.  
Avoid contact with skin, eyes and clothing.

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**SECTION 16: OTHER INFORMATION**

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

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

**HMIS (Hazardous Materials Identification System, based on the Third 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

**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 01/27/2015

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