

## 1. Identification

**Product identifier**                      **Ridomil Gold® GR Smartcartridge® Fungicide**

**Other means of identification**

**SDS number**                              820

**Recommended use**                      Fungicide.

**Recommended restrictions**        No other uses are advised.  
Keep out of the Reach of Children!

**EPA Registration number**        EPA: 100-798-5481

**Manufacturer/Importer/Supplier/Distributor information**

**Company Name**                      AMVAC Chemical Corporation

**Address**                                  4695 MacArthur Court  
Suite 1200  
Newport Beach, CA 92660  
United States

**Telephone**

**AMVAC Chemical Corp**              949-260-1200

**AMVAC Chemical Corp**              949-260-6270(FAX)

**Product Use**                              888-462-6822

**Website**                                  www.amvac.com

**E-mail**                                      CustServ@amvac.com

**Emergency phone number**

**Medical**                                    888-681-4261

**CHEMTREC®**                              800-424-9300

**(USA+Canada)**  
**CHEMTREC® (Outside**              +1-703-527-3887  
**USA)**

## 2. Hazard(s) identification

**Physical hazards**                      Not classified.

|                       |   |   |
|-----------------------|---|---|
| <b>Health hazards</b> | Acute toxicity, inhalation                        | Category 4                              |
|                       | Carcinogenicity                                   | Category 1A                             |
|                       | Specific target organ toxicity, single exposure   | Category 3 respiratory tract irritation |
|                       | Specific target organ toxicity, single exposure   | Category 3 narcotic effects             |
|                       | Specific target organ toxicity, repeated exposure | Category 2                              |

**Environmental hazards**              Not classified.

**OSHA defined hazards**              Not classified.

**Label elements**



**Signal word**                              Danger

**Hazard statement**                      Harmful if inhaled.  
May cause cancer.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.

|  |   |
|--|---|
| <b>Precautionary statement</b>                   |   |
| <b>Prevention</b>                                | Obtain special instructions before use.<br>Do not handle until all safety precautions have been read and understood.<br>Use only outdoors or in a well-ventilated area.<br>Do not breathe dust.<br>Wear protective gloves/protective clothing/eye protection/face protection.   |
| <b>Response</b>                                  | If inhaled: Remove person to fresh air and keep comfortable for breathing.<br>If exposed or concerned: Get medical advice/attention.<br>Get medical advice/attention if you feel unwell.  |
| <b>Storage</b>                                   | Store locked up.  |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national/international regulations.   |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |
| <b>Supplemental information</b>                  | This 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 in section 15. The pesticide label also includes other important information, including directions for use. |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name   | Common name and synonyms | CAS number              | %           |
|---|--------------------------|-------------------------|-------------|
| Crystalline Silica  |                          | 14808-60-7              | < 10.0      |
| Naphthalene   |                          | 91-20-3                 | < 1.0       |
| Petroleum Solvent   |                          | Proprietary             | Proprietary |
| Montmorillonite Clay  |                          | 1302-78-9               | Proprietary |
| Other Ingredients   |                          | Proprietary             | < 86.5      |
| (R,S)-2-[(2,6-dimethylphenyl)-methoxyacetylamino]-propionic acid methyl ester (Mefenoxam) |                          | 70630-17-0 & 69516-34-3 | 2.5         |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison center or doctor/physician for further treatment advice. |
| <b>Skin contact</b>   | Remove contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center for treatment advice.   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a physician or poison control center for treatment advice.   |
| <b>Ingestion</b>  | If swallowed, seek medical advice immediately and show this container or label. Do not give any liquid to the person. Do not induce vomiting without advice from poison control center. Do not give anything by mouth to an unconscious person.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | May cause drowsiness or dizziness. Headache. Nausea, vomiting. May cause respiratory irritation. Prolonged exposure may cause chronic effects.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.   |
| <b>General information</b>  | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.   |

### 5. Fire-fighting measures

|   |   |
|---|---|
| <b>Suitable extinguishing media</b>               | Water Spray or Fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ). |
| <b>Unsuitable extinguishing media</b>             | None known.   |
| <b>Specific hazards arising from the chemical</b> | During fire, gases hazardous to health may be formed.                             |

|  |   |
|--|---|
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

## 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| <b>Methods and materials for containment and cleaning up</b>               | Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk. Carefully mop or sweep up spill and place in container for disposal.<br><br>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.                     |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Minimize dust generation and accumulation. Do not breathe dust. Avoid prolonged exposure. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store locked up. Store in tightly closed container. Store in a well-ventilated place. Do not store near food, feed, seeds, or tobacco products. Store away from incompatible materials (see Section 10 of the SDS).  |

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

| Components                          | Type | Value                          | Form             |
|-------------------------------------|------|--------------------------------|------------------|
| Crystalline Silica (CAS 14808-60-7) | PEL  | 0.05 mg/m <sup>3</sup>         | Respirable dust. |
| Naphthalene (CAS 91-20-3)           | PEL  | 50 mg/m <sup>3</sup><br>10 ppm |                  |

#### US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

| Components                          | Type | Value                 | Form        |
|-------------------------------------|------|-----------------------|-------------|
| Crystalline Silica (CAS 14808-60-7) | TWA  | 0.1 mg/m <sup>3</sup> | Respirable. |
|                                     |      | 2.4 mppcf             | Respirable. |

#### US. ACGIH Threshold Limit Values (TLV)

| Components                          | Type | Value                   | Form                 |
|-------------------------------------|------|-------------------------|----------------------|
| Crystalline Silica (CAS 14808-60-7) | TWA  | 0.025 mg/m <sup>3</sup> | Respirable fraction. |
| Naphthalene (CAS 91-20-3)           | TWA  | 10 ppm                  |                      |

#### NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

| Components                          | Type | Value                |
|-------------------------------------|------|----------------------|
| Crystalline Silica (CAS 14808-60-7) | IDLH | 50 mg/m <sup>3</sup> |
| Naphthalene (CAS 91-20-3)           | IDLH | 0.9 %<br>250 ppm     |

#### US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

| Components                          | Type | Value                          | Form             |
|-------------------------------------|------|--------------------------------|------------------|
| Crystalline Silica (CAS 14808-60-7) | TWA  | 0.05 mg/m <sup>3</sup>         | Respirable dust. |
| Naphthalene (CAS 91-20-3)           | STEL | 75 mg/m <sup>3</sup><br>15 ppm |                  |
|                                     | TWA  | 50 mg/m <sup>3</sup>           |                  |

10 ppm

|  |   |
|--|---|
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).  |
| <b>Exposure guidelines</b>   | Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.   |
| <b>US - California OELs: Skin designation</b>                                |   |
| Naphthalene (CAS 91-20-3)  | Can be absorbed through the skin.   |
| <b>US ACGIH Threshold Limit Values: Skin designation</b>                     |   |
| Naphthalene (CAS 91-20-3)  | Danger of cutaneous absorption  |
| <b>Appropriate engineering controls</b>                                      | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
|  | The label should be consulted for ventilation requirements for the end user.  |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Eye/face protection</b>   | Use tight fitting goggles if dust is generated.   |
| <b>Skin protection</b>   |   |
| <b>Hand protection</b>   | Wear appropriate chemical resistant gloves.   |
| <b>Other</b>   | Wear suitable protective clothing.  |
| <b>Respiratory protection</b>  | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.   |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b>  | Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.  |

## 9. Physical and chemical properties

### Appearance

|                       |                |
|-----------------------|----------------|
| <b>Physical state</b> | Solid.         |
| <b>Form</b>           | Granular.      |
| <b>Color</b>          | Reddish-brown. |

**Odor** Sweet Aromatic.

**Odor threshold** Not available.

**pH** 7 - 9 (1% solution in water @ 77 °F (25 °C))

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** 230 °F (110 °C) Pensky-Martens Closed Cup

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** 2.50E-05 mm Hg @ 77 °F (25 °C) (Mefenoxam)

**Vapor density** Not available.

**Relative density** 0.61

### Solubility(ies)

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 851 °F (455 °C)

**Decomposition temperature** Not available.

|                             |   |
|-----------------------------|---|
| <b>Viscosity</b>            | Not available.  |
| <b>Other information</b>    | The data presented in this section are typical values and should not be construed as a specification. |
| <b>Density</b>              | 38 lb/ft <sup>3</sup>   |
| <b>Explosive properties</b> | Not explosive.  |
| <b>Oxidizing properties</b> | Not oxidizing.  |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | None known.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Harmful if inhaled. May cause drowsiness or dizziness. Headache. Nausea, vomiting. |
| <b>Skin contact</b> | Not a skin irritant or skin sensitizer.  |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.                           |
| <b>Ingestion</b>    | May cause discomfort if swallowed.   |

**Symptoms related to the physical, chemical and toxicological characteristics** May cause drowsiness or dizziness. Headache. Nausea, vomiting. May cause respiratory irritation.

### Information on toxicological effects

**Acute toxicity** Harmful if inhaled.

| Product                                    | Species | Test Results        |
|--|---------|---------------------|
| Ridomil Gold® GR Smartcartridge® Fungicide |         |                     |
| <b>Acute</b>                               |         |                     |
| <b>Dermal</b>                              |         |                     |
| LD50                                       | Rat     | > 2000 mg/kg        |
| <b>Inhalation</b>                          |         |                     |
| LC50                                       | Rat     | > 2.5 mg/l, 4 Hours |
| <b>Oral</b>                                |         |                     |
| LD50                                       | Rat     | > 5000 mg/kg        |

**Skin corrosion/irritation** Not classified.

#### Corrosivity

Ridomil Gold® GR Smartcartridge® Fungicide Result: Slightly Irritating.  
Species: Rabbit

**Serious eye damage/eye irritation** Not classified.

#### Eye

Ridomil Gold® GR Smartcartridge® Fungicide Result: Minimally Irritating.  
Species: Rabbit

### Respiratory or skin sensitization

**Respiratory sensitization** Not classified.

**Skin sensitization** Animal test did not cause sensitization by skin contact (Guinea pig).

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline Silica (CAS 14808-60-7) 1 Carcinogenic to humans.  
Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline Silica (CAS 14808-60-7)

Cancer

## US. National Toxicology Program (NTP) Report on Carcinogens

Crystalline Silica (CAS 14808-60-7)

Known To Be Human Carcinogen.

Naphthalene (CAS 91-20-3)

Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

|   |  |
|---|--|
| <b>Reproductive toxicity</b>                              | Not classified.  |
| <b>Specific target organ toxicity - single exposure</b>   | May cause respiratory irritation. May cause drowsiness or dizziness.   |
| <b>Specific target organ toxicity - repeated exposure</b> | Due to the presence of respirable crystalline silica in the carrier for this product, there may be damage to the lungs through prolonged or repeated exposure by inhalation. |
| <b>Aspiration hazard</b>                                  | Not an aspiration hazard.  |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.                        |

## 12. Ecological information

|                                      |  |
|--------------------------------------|--|
| <b>Ecotoxicity</b>                   | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| <b>Persistence and degradability</b> | Active Ingredient (a.i.): Not persistent in soil or water.   |
| <b>Bioaccumulative potential</b>     | Active ingredient (a.i.): Bioaccumulation is unlikely.   |
| <b>Mobility in soil</b>              | Active Ingredient (a.i.): Moderately mobile in soils.  |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.            |

## 13. Disposal considerations

|  |   |
|--|---|
| <b>Disposal instructions</b>                 | Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA regional office for guidance. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.  |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.  |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with all applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.  |

## 14. Transport information

|   |  |
|---|--|
| <b>DOT</b>  | Not regulated as dangerous goods.  |
| <b>IATA</b>   | Not regulated as dangerous goods.<br>Read safety instructions, SDS and emergency procedures before handling. |
| <b>IMDG</b>   | Not regulated as dangerous goods.  |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.  |

## 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This 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. A portion of the hazard information required on the pesticide label, including the EPA mandated signal word, is reproduced below. The pesticide label also includes other important information, including restrictions and directions for use.

Hazard to Humans and Domestic Animals.

CAUTION! Causes moderate eye irritation. Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

### Toxic Substances Control Act (TSCA)

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Naphthalene (CAS 91-20-3) Listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline Silica (CAS 14808-60-7) Cancer  
lung effects  
immune system effects  
kidney effects

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Acute toxicity (any route of exposure)  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)

#### SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Naphthalene   | 91-20-3    | < 1.0    |

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Naphthalene (CAS 91-20-3)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

### US state regulations

#### California Proposition 65



**WARNING:** This product can expose you to chemicals including Crystalline Silica, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline Silica (CAS 14808-60-7) Listed: October 1, 1988  
Naphthalene (CAS 91-20-3) Listed: April 19, 2002

## International Inventories

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No                     |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** Mar-11-2024

**Revision date** Mar-11-2024

**Version #** 1.0

**HMIS® ratings** Health: 2\*  
Flammability: 1  
Physical hazard: 0

**NFPA ratings** Health: 2  
Flammability: 1  
Instability: 0

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