

**SURROUND® WP and SURROUND® At Home® Crop Protectants** MSDS Code: SURROUND-WP

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**NFPA Classification:****Health:** 0  
**Flammability:** 0  
**Instability:** 0  
**Special Hazards:****HMIS Classification:****Health:** 1 \*  
**Flammability:** 0  
**Reactivity:** 0  
**Personal Protection:** E

\* Indicates possible chronic health effects.

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Chemical Name:** Mineral**Product Use:** Crop protectant**Supplier:** ENGELHARD CORPORATION  
101 WOOD AVENUE  
ISELIN, NJ 08830-0770 USA  
+1-732-205-6913 FOR CUSTOMER SERVICE  
+1-502-775-7288 FOR ENVIRONMENT, HEALTH, AND SAFETYFor Chemical Emergency Call CHEMTREC (24 hours):  
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)  
1-703-527-3887 (Outside Above Area)**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Notes</u>
Mineral(s)	**	None.
Trade Secret	**	None.

**3. HAZARDS IDENTIFICATION****Color:** White  
**Form:** Powder  
**Odor:** Odorless  
**Flash Point, °C:** Not Applicable

**Most Important Hazards:** Prolonged or repeated exposure may cause lung damage.

**Potential Health Effects:**

**Inhalation:** May cause irritation of the respiratory tract. Prolonged or repeated exposure may cause lung damage.

**Ingestion:** No adverse health effects are expected from swallowing.

**Skin Contact:** May cause skin irritation.

**Eye Contact:** Dust may cause irritation and inflammation.

**Carcinogenicity:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>NTP (Y/N)</u>	<u>IARC (See Notes)</u>	<u>OSHA (Y/N)</u>	<u>ACGIH (See Notes)</u>
Mineral(s)	**	N	N	N	A4
Trade Secret	**	N	N	N	A4

Notes:

IARC: Y1=Carcinogenic to humans; Y2A=Probably carcinogenic to humans; Y2B=Possibly carcinogenic to humans; N3=Not classifiable as to its carcinogenicity; N=Not studied or probably not carcinogenic.

ACGIH: A1=Confirmed human carcinogen; A2=Suspected human carcinogen; A3=Confirmed animal carcinogen; A4=Not classifiable as a human carcinogen; A5=Not suspected as a human carcinogen; N=Not studied.

**Chronic Health Hazards:** Prolonged or repeated exposure may cause lung damage.

**Aggravated Medical Conditions:** Pulmonary disorders. Allergies.

**4. FIRST AID MEASURES**

**Inhalation:** Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

**Ingestion:** If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

**Skin Contact:** Flush skin with large amounts of water. If irritation persists, get medical attention.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**5. FIRE FIGHTING MEASURES**

**Flash Point, °C:** Not Applicable  
**Autoignition Temperature, °C:** Not Applicable  
**Lower Explosive Limit, %:** Not Applicable  
**Upper Explosive Limit, %:** Not Applicable

**Extinguishing Media:** None - does not burn. Use extinguishing media appropriate for surrounding fire.

**Fire Fighting Procedures:** Positive pressure, self-contained breathing apparatus. Wear full protective clothing.

**Unusual Fire and Explosion Hazards:** Not a fire or explosion hazard. See Section 10: Stability and Reactivity for more information.

**6. ACCIDENTAL RELEASE MEASURES**

**Spill Procedures:** Scoop up or vacuum into a container for reclamation or disposal.

**7. HANDLING AND STORAGE**

Store in cool dry place.  
Material may be slippery when wet.  
Avoid breathing dust.  
Avoid contact with eyes.  
Use with adequate ventilation.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Mineral(s)	**	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable fraction)	2 mg/m <sup>3</sup> (Respirable fraction)
Trade Secret	**	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable fraction)	2 mg/m <sup>3</sup> (Respirable fraction)

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 2002 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, June 30, 1993.

**Personal Protective** Safety glasses with side shields. Wear suitable gloves.

**Equipment:**

**Respiratory Protection:** Use a NIOSH/MSHA approved respirator as necessary to protect from: dust. If respiratory protection is used, follow all requirements for respiratory programs set forth in OSHA regulations (29 CFR 1910.134).

**Ventilation:** General ventilation. Local exhaust ventilation is recommended to control exposures to within applicable limits.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form:** Powder  
**Color:** White  
**Odor:** Odorless

**Specific Gravity:** **Min:** 2  
**Solubility (in water):** Insoluble

**10. STABILITY AND REACTIVITY**

**Stability Data:** Stable

**Conditions/Hazards to Avoid:** None anticipated

**Incompatibility (Materials to Avoid):** None anticipated.

**Hazardous Decomposition Products:** None anticipated

**Polymerization:** None anticipated.

**11. TOXICOLOGICAL INFORMATION**

**Information on Product:**

No data available.

**Information on Components:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Acute Toxicity - Oral</u>	<u>Acute Toxicity - Inhalation</u>	<u>Acute Toxicity - Dermal</u>	<u>Acute Toxicity - Other</u>
Mineral(s)	**	> 5,000 mg/kg (rat)	Not Available	Not Available	Not Available
Trade Secret	**	> 5,000 mg/kg (rat)	Not Available	Not Available	Not Available

**12. ECOLOGICAL INFORMATION**

**Information on Product:**

**Environmental Fate:**

No data available.

**Ecotoxicological Information:** No data available.

**13. DISPOSAL CONSIDERATIONS**

**US EPA Waste Number:** Not Regulated  
**Disposal of Waste Method:** This product, if disposed as received, is a non-hazardous waste. Local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

**14. TRANSPORT INFORMATION**

**International Transport Regulations:**

**UN/PIN Number:** Not Regulated

**US Transportation Regulations:**

**DOT Classification:** Not Regulated

**Canadian Transportation of Dangerous Goods (TDG):**

**TDG Classification:** Not Regulated

**15. REGULATORY INFORMATION**

**International Inventories:**

**United States:** This product or its ingredients are listed on or compliant with the TSCA Inventory.  
**Canada:** This product or its ingredients are listed on or compliant with the DSL.  
**Europe:** Not Determined  
**Japan:** Not Determined  
**Australia:** This product or its ingredients are listed on or compliant with AICS.  
**Korea:** Not Determined

**US Federal Regulations:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Subject to SARA 313 Reporting</u>
Mineral(s)	**	No
Trade Secret	**	No

**SARA 311/ 312 Hazard Categories:**

Chronic Health Hazard

**CAA 602 Ozone Depleting Substances (ODS):**

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

**US State Regulations:**

VOC Content (CARB):           None

**Canadian Regulations:**

**WHMIS Classification:**

Not Determined

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations* .

**16. OTHER INFORMATION**

Revision number:           6

**Section(s) Revised  
in this Version:**       Section 8: Exposure Controls/Personal Protection  
                                  Section 14: Transportation Information  
                                  Section 15: Regulatory Information

**Prepared By:**           Engelhard Corporate Environmental Health & Safety Group

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Material Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current. Copyright Engelhard Corporation. License granted to make unlimited copies for internal use only. End of MSDS.....