



# Safety Data Sheet (SDS) International (GHS)

Revision date: 2018-10-25

## SECTION 1: Identification

### Product identifiers:

**Product trade name:** GOOD-RITE\* STALITE\* S Antioxidant  
**Company product number:** STALITES  
**Other means of identification:** Not Available

### Recommended use of the chemical and restrictions on use:

**Uses:** Antioxidant for polymeric materials.  
**Restrictions on use:** None identified

### Details of the supplier:

**Manufacturer/Supplier:** Emerald Performance Materials, LLC  
1499 SE Tech Center Place, Suite 300  
Vancouver, WA 98683  
United States  
Telephone: +1-360-954-7100  
FAX: +1-360-954-7201  
**For further information about this SDS:** Email: [product.compliance@emeraldmaterials.com](mailto:product.compliance@emeraldmaterials.com)

### Emergency telephone number:

ChemTel (24 hours): 1-800-255-3924 (USA); +1-813-248-0585 (outside USA);  
1-300-954-583 (Australia); 000-800-100-4086 (India).

## SECTION 2: Hazard(s) identification

### Classification of the substance or mixture:

Not classified as hazardous under any GHS hazard class (UN GHS).

### Label elements:

**Hazard pictogram(s):** Not Applicable  
**Signal word:** Not Applicable  
**Hazard statements:** Not Applicable  
**Precautionary statements:** Not Applicable  
**Supplemental information:** No Additional Information

**Other hazards:** May form explosible dust-air mixture if dispersed.

See Section 11 for toxicological information.

## SECTION 3: Composition/information on ingredients

### Substance:

No Hazardous Components found under applicable regulations.

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

## SECTION 4: First-aid measures

### Description of first aid measures:

**General:** If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

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**Eye contact:** Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

**Skin contact:** Wash the affected area thoroughly with plenty of soap and water. Get medical attention if symptoms occur.

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

**Protection of first aid responders:** Wear proper personal protective clothing and equipment.

**Most important symptoms and effects, both acute and delayed:** Irritation. Preexisting sensitization, skin and/or respiratory disorders or diseases may be aggravated. See section 11 for additional information.

**Indication of any immediate medical attention and special treatment needed, if necessary:** Treat symptomatically.

## SECTION 5: Fire-fighting measures

### Extinguishing media:

**Suitable:** Use water spray, dry chemical, or foam. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity which may result in reignition.

**Unsuitable:** Avoid hose streams or any method which will create dust clouds.

### Special hazards arising From the chemical:

**Unusual fire/explosion hazards:** Concentrated dust/air combinations may produce explosive conditions. As with all organic dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. As a precaution, implement standard safety measures for handling finely divided organic powders. See Section 7 for suggested measures.

**Hazardous combustion products:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Hazardous decomposition products) for additional information.

**Special protective equipment and precautions for fire-fighters:** Avoid hose streams or any method which will create dust clouds. Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

See section 9 for additional information.

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Avoid raising powdered material due to explosion hazard. Use spark-proof and explosion-proof equipment. If inhalation of dust cannot be avoided, wear an approved particulate respirator.

**Environmental precautions:** Do not flush product into public sewer, water systems or surface waters.

**Methods and materials for containment and cleaning up:** Contain spill. Wear proper personal protective clothing and equipment. Using care to avoid dust generation, vacuum or sweep into a closed container for reuse or disposal. Use approved industrial vacuum cleaner for removal. Avoid causing dust. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and laundry before reuse.

## SECTION 7: Handling and storage

**Precautions for safe handling:** As with any chemical product, use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid drinking, tasting, swallowing or ingesting this product. Avoid routine inhalation of dust of any kind. Exercise care when emptying containers, sweeping, mixing or doing other tasks which can create dust. Wash contaminated

clothing before reuse. Provide eyewash fountains and safety showers in the work area. As a precaution to control dust explosion potential, implement the following safety measures: Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). In general, dust of organic materials is a static charge generator which may be ignited by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. Use spark-proof tools and equipment. Bond, ground and properly vent conveyors, dust control devices and other transfer equipment. Prohibit flow of polymer, powder or dust through non-conductive ducts, vacuum hoses or pipes, etc.; only use grounded, electrically conductive transfer lines when pneumatically conveying product. Good housekeeping and controlling of dusts are necessary for safe handling of product. Prevent accumulation of dust (e.g., well-ventilated conditions, promptly vacuuming spills, cleaning overhead horizontal surfaces, etc.).

**Conditions for safe storage, including any incompatibilities:** Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Product can accumulate static charge when handled. Equipment should be grounded.

**SECTION 8: Exposure controls / personal protection**

**Control parameters:**

**Occupational exposure limits (OEL):** No applicable exposure limits.

Product particle size is typically > 10 microns (inhalable). PNOS: ACGIH has recommended the following exposure limits for Particulates (insoluble or poorly soluble) not otherwise specified (PNOS): 10 mg/m<sup>3</sup> TWA (inhalable particles), 3 mg/m<sup>3</sup> TWA (respirable particles).

**Exposure controls:**

**Appropriate engineering controls:** Always provide effective general and, when necessary, local exhaust ventilation to draw dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). Prohibit flow of powder or dust through non-conductive ducts, vacuum hoses, or pipes, etc. Bond, ground, and properly vent conveyors, dust control devices and other transfer equipment.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Wear eye protection.

**Skin and body protection:** Wear protective gloves. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

**Respiratory protection:** Respiratory protection is not needed with proper ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If inhalation of dust cannot be avoided, wear an approved particulate respirator.

**Further information:** Eyewash fountains and safety showers are recommended in the work area.

**SECTION 9: Physical and chemical properties**

<b>Form:</b>	Powder	<b>pH:</b>	Not Available
<b>Appearance:</b>	Brown	<b>Relative density:</b>	0.98-1.05
<b>Odor:</b>	Slight amine	<b>Partition coefficient (n-octanol/water):</b>	>6
<b>Odor threshold:</b>	Not Available	<b>% Volatile by weight:</b>	Not Available
<b>Solubility in water:</b>	Insoluble	<b>VOC:</b>	Not Available
<b>Evaporation rate:</b>	Not Available	<b>Boiling point °C:</b>	370 °C
<b>Vapor pressure:</b>	0.00002 mm Hg @ 25 °C	<b>Boiling point °F:</b>	698 °F
<b>Vapor density:</b>	Not Available	<b>Flash point:</b>	213 °C (415 °F) Cleveland Open Cup
<b>Viscosity:</b>	Not Available	<b>Auto-ignition temperature:</b>	Not Available
<b>Melting point/Freezing point:</b>	90-99 °C (194-210 °F)	<b>Flammability (solid, gas):</b>	May form combustible dust concentrations in air.
<b>Oxidizing properties:</b>	Not oxidizing	<b>Flammability or explosive limits:</b>	<b>LFL/LEL</b> Not Available
<b>Explosive properties:</b>	Not explosive		<b>UFL/UEL</b> Not Available
<b>Decomposition temperature:</b>	Not Available		

**Other information:** Amounts specified are typical and do not represent a specification.

**Dust combustibility data:** The following characteristics apply to powder and are expected to apply to dust from pastilles, flakes or pellets if these forms are reduced to a powder:

Minimum explosive concentration:	0.025 oz/ft <sup>3</sup> (25 g/m <sup>3</sup> )
Minimum ignition energy (dust cloud):	0.2 joules @ 0.25 oz/ft <sup>3</sup> (0.2 joules @ 2.5 g/m <sup>3</sup> )
Maximum rate of pressure rise:	11,300 psi/sec @ 0.1 oz/ft <sup>3</sup> (779 bars/sec @ 100 g/m <sup>3</sup> )
Maximum pressure of explosion:	65 psig @ 2.0 oz/ft <sup>3</sup> (4.5 bars-gauge @ 2000 g/m <sup>3</sup> )
Explosion severity:	3.43 (severe)
Volume resistivity:	4.28 x 10 <sup>+15</sup> ohm-cm
NFPA standard 499 rating (2008):	Class II, Group G

## SECTION 10: Stability and reactivity

**Reactivity:** None known.

**Chemical stability:** This product is stable.

**Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Excessive heat and ignition sources. Avoid dust formation.

**Incompatible materials:** Avoid contact with strong oxidizing agents. Depending on the amount and specific materials involved, contact can result in intense heat, boiling, flame development, explosion or toxic gas generation.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide, aliphatic hydrocarbons, aromatic hydrocarbons, oxides of nitrogen, and/or other undetermined compounds.

## SECTION 11: Toxicological information

**Information on likely routes of exposure:**

**General:** Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

**Eyes:** Solid particles on the eye (powder/dust) may cause pain and be accompanied by irritation.

**Skin:** Repeated or prolonged skin contact may cause irritation.

**Inhalation:** Dust inhalation may cause respiratory irritation.

**Ingestion:** Ingestion may cause irritation.

**Acute toxicity information:** Not classified (based on available data, the classification criteria are not met). Oral LD50, Rat: >5000 mg/kg. Dermal LD50, Rabbit: >2000 mg/kg. Inhalation LC50, Rat: >5.8 mg/L, 1 hour.

**Skin corrosion/irritation:** Not classified (based on available data, the classification criteria are not met).

**Serious eye damage/irritation:** Not classified (based on available data, the classification criteria are not met).

**Respiratory or skin sensitization:** Not classified (based on available data, the classification criteria are not met).

**Carcinogenicity:** Not classified.

**Germ cell mutagenicity:** Not classified (based on available data, the classification criteria are not met).

**Reproductive toxicity:** Not classified.

**Specific target organ toxicity (STOT) - single exposure:** Not classified (based on available data, the classification criteria are not met).

**Specific target organ toxicity (STOT) - repeated exposure:** Not classified. SUBSTITUTED DIPHENYLAMINES: A chronic, 64-week

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feeding study in rats of a similar material was conducted at levels as high as 10,000 parts per million (ppm). Taste aversion in the diet resulted in decreased food consumption and growth; all groups except the low dose (2500 ppm) male exhibited decreased growth. Livers were enlarged at all test concentrations. Degenerative changes in the liver were also seen at all levels. However, the severity was not dose related.

**Aspiration hazard:** Not classified (technical impossibility to obtain the data).

**Other toxicity information:** No additional information available.

## SECTION 12: Ecological information

**Ecotoxicity:** This material has a high estimated Log Kow value (>6) such that acute toxicity is not expected at or below the level of water solubility.

**Persistence and degradability:** This material is not readily biodegradable and due to low water solubility and low vapor pressure is not expected to partition to water or air if released into the environment.

**Bioaccumulative potential:** The low water solubility suggests the potential to bioaccumulate is low.

**Mobility in soil:** No specific information available.

**Other adverse effects:** No additional information available.

## SECTION 13: Disposal considerations

Dispose of unused contents (incineration or landfill) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate.

See Section 8 for recommendations on the use of personal protective equipment.

## SECTION 14: Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

**UN number:** N/A

**UN proper shipping name:**

Not regulated - See Bill of Lading for Details

**Transport hazard class(es):**

**U.S. DOT hazard class:** N/A

**Canada TDG hazard class:** N/A

**Europe ADR/RID hazard class:** N/A

**IMDG Code (ocean) hazard class:** N/A

**ICAO/IATA (air) hazard class:** N/A

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

**Packing group:** N/A

**Environmental hazards:**

**Marine pollutant:** Not Applicable

**Hazardous substance (USA):** Not Applicable

**Special precautions for user:** Not Applicable

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

Not Applicable

<b>SECTION 15: Regulatory information</b>
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Safety, health and environmental regulations specific for the product in question:

**Japan regulations:****Japan Industrial Safety and Health Law:**

<u>Chemical name</u>	<u>Category</u>
No subject chemicals	

**Japan Fire Service Law:**

<u>Chemical name</u>	<u>Category</u>
No subject chemicals	

**Japan Poisonous and Deleterious Substances:**

<u>Chemical name</u>	<u>Category</u>	<u>Threshold</u>
No subject chemicals		

**Japan Prevention of Marine Pollution and Disaster:**

<u>Chemical name</u>	<u>Category</u>
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Noxious Category Y

**Japan Chemical Substances Control Law:**

<u>Chemical name</u>	<u>Category</u>	<u>Notes</u>
No subject chemicals		

**Korean regulations:****Korea Industrial Safety and Health Act:**

<u>Chemical name</u>	<u>Category</u>	<u>Threshold</u>
No subject chemicals		

**Korea Act on Registration and Evaluation of Chemical Substances (K-REACH) - Substances subject to registration:**

No subject chemicals

**Korea Chemical Control Act (CCA):**

<u>Chemical name</u>	<u>Category</u>	<u>Code</u>	<u>Threshold</u>
No subject chemicals			

**Korea Safety Control of Dangerous Substances Act (MPSS):**

<u>Chemical name</u>	<u>Class</u>	<u>Threshold</u>
No subject chemicals		

**Korea Waste Control Act: Waste disposal methods must comply with local and national laws.**

<u>Chemical name</u>	<u>Notes</u>
No subject chemicals	

**Other regulations:** No Additional Information

**Chemical inventories:**

<u>Regulation</u>	<u>Status</u>
Australian Inventory of Chemical Substances (AICS):	Y
Canadian Domestic Substances List (DSL):	Y
Canadian Non-Domestic Substances List (NDSL):	N
China Inventory of Existing Chemical Substances (IECSC):	Y
European EC Inventory (EINECS, ELINCS, NLP):	Y
Japan Existing and New Chemical Substances (ENCS):	Y
Japan Industrial Safety and Health Law (ISHL):	Y
Korean Existing and Evaluated Chemical Substances (KECL):	Y
New Zealand Inventory of Chemicals (NZIoC):	Y
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Y
Taiwan Inventory of Existing Chemicals:	Y
U.S. Toxic Substances Control Act (TSCA):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed. A "Y" for New Zealand may mean that a qualified group standard may exist for the components in this product.

**Chemical inventory notes:** New Zealand: One or more components may be covered by a group standard.

**Europe REACH (EC) 1907/2006:** Not all applicable components are registered. For Europe REACH, CAS 68411-46-1 is chemically equivalent to CAS 15721-78-5 (EC# 239-816-9). Please contact your sales representative for further information regarding REACH compliance. REACH is only relevant to substances either manufactured or imported into the EU. REACH information regarding this product is provided for informational purposes only. Each Legal Entity may have differing REACH obligations, depending on their place in the supply chain. For material manufactured outside of the EU, the importer of record

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must understand and meet their specific obligations under the regulation.

## SECTION 16: Other information

### **Legend:**

\* : Trademark owned by Emerald Performance Materials, LLC.

ACGIH: American Conference of Governmental Industrial Hygienists

N/A: Not Applicable

N/E: None Established

STEL: Short Term Exposure Limit

TWA: Time Weighted Average (exposure for 8-hour workday)

### **Users Responsibility/Disclaimer of Liability:**

The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.

Safety Data Sheet Preparer:

Product Compliance Department

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United States