



# Safety Data Sheet

according to Regulation (EC) 1907/2006 (REACH)

Revision date: 2018-02-16  
Supersedes: 2017-10-23

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier:

**Product trade name:** SUPERLITE\* Solid NG  
**Company product number:** SUPERLTSOLNG  
**REACH registration number:** Mixture  
**Other means of identification:** Not Available

### 1.2. Relevant identified uses of the substance or mixture and uses advised against:

**Uses:** Antioxidant for polymeric materials.  
**Uses advised against:** None identified

### 1.3. Details of the supplier of the safety data sheet:

**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

**EU Only Representative:** Envigo Consulting Limited  
Woolley Road, Alconbury  
Cambridgeshire PE28 4HS United Kingdom  
Telephone: +44 (0) 1954 212 132  
e-mail: info@envigo.com

**For further information about this SDS:** Email: product.compliance@emeraldmaterials.com

### 1.4. 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: Hazards identification

### 2.1. Classification of the substance or mixture:

#### Product classification according to Regulation (EC) 1272/2008 (CLP) as amended:

Allergic effects, EUH208  
Hazardous to the aquatic environment, Chronic, category 3, H412

### 2.2. Label elements:

#### Product labeling according to Regulation (EC) 1272/2008 (CLP) as amended:

**Hazard pictogram(s):** Not Applicable  
**Signal word:** Not Applicable

#### Hazard statements:

EUH208 Contains 4,4'-(Methylethylidene) bisphenol (Bisphenol A). May produce an allergic reaction.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P273 Avoid release to the environment.

#### Supplemental information:

Safety data sheet available on request.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Annex III and ECHA Guidance on Labelling and Packaging. Regulations in individual countries/regions may determine which statements are required on the product label. See product label for specifics.

SDS Name: SUPERLITE\* Solid NG

### 2.3. Other hazards:

**PBT/vPvB criteria:**

Not Available

**Other hazards:**

May form explosible dust-air mixture if dispersed. Certain alkylated phenols have been implicated with depigmentation of the skin (vitiligo).

See Section 11 for toxicological information.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixture:

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Weight%</u>	<u>Classification</u>	<u>H Statements</u>
Proprietary	Silica, amorphous	25-35	Not classified	
007756-94-7	Triisobutylene	5-10	Asp. Tox. 1- Flam. Liq. 3- Skin Irrit. 2	H226-304-315
0025167-70-8	Diisobutylene (2,4,4-trimethylpentene)	0.5-1.5	Aquatic Acute 1- Aquatic Chronic 1- Asp. Tox. 1- Flam. Liq. 2- STOT SE 3 NE	H225-304-336-400-410
0000080-05-7	4,4'-(Methylethylidene) bisphenol (Bisphenol A)	0.1-1.0	Aquatic Chronic 2- Eye Dam. 1- Repr. 1B- Skin Sens. 1- STOT SE 3 RTI	H317-318-335-360-411
<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Weight%</u>	<u>REACH Registration No.</u>	<u>EC/List Number</u>
Proprietary	Silica, amorphous	25-35	Not Available	231-545-4
007756-94-7	Triisobutylene	5-10	Not Available	500-001-0
0025167-70-8	Diisobutylene (2,4,4-trimethylpentene)	0.5-1.5	Not Available	246-690-9
0000080-05-7	4,4'-(Methylethylidene) bisphenol (Bisphenol A)	0.1-1.0	Not Available	201-245-8

See Section 16 for full text of H (Hazard) statements (EC 1272/2008).

**Notes:** Contains Bisphenol A: <0.3%. SILICA: Listed due to exposure limits.

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

### 4.1. 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.

**Eye contact:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If eye irritation persists: Get medical advice/attention.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**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.

### 4.2. Most important symptoms and effects, both acute and delayed:

Dizziness, Drowsiness, Headache, Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. Persons with sensitive airways (e.g., asthmatics) may react to airborne dust or vapors. See section 11 for additional information.

#### 4.3. Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

## SECTION 5: Firefighting measures

#### 5.1. 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.

#### 5.2. Special hazards arising from the substance or mixture:

**Unusual fire/explosion hazards:** Concentrated dust/air combinations may produce explosive conditions. This product has not been evaluated for dust explosion potential. 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 (10.6 Hazardous decomposition products) for additional information.

#### 5.3. Advice for firefighters:

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

#### 6.1. 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. Personal Protective Equipment must be worn.

#### 6.2. Environmental precautions:

Do not flush product into public sewer, water systems or surface waters.

#### 6.3. Methods and material 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 launder before reuse.

#### 6.4. References to other sections:

See Section 8 for recommendations on the use of personal protection and Section 13 for waste disposal.

## SECTION 7: Handling and storage

#### 7.1. 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 inhalation of aerosol, mist, spray, fume or vapor. 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.).

## 7.2. 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. Open containers carefully and slowly.

## 7.3. Specific end use(s):

No Additional Information

# SECTION 8: Exposure controls / personal protection

## 8.1. Control parameters:

### Occupational exposure limits (OEL):

Chemical Name	EU OELV	EU IOELV	ACGIH - TWA/Ceiling	ACGIH - STEL
Silica, amorphous	N/E	N/E	N/E	N/E
Triisobutylene	N/E	N/E	N/E	N/E
Diisobutylene (2,4,4-trimethylpentene)	N/E	N/E	N/E	N/E
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	N/E	10 mg/m <sup>3</sup> TWA (inhalable dust), 2 mg/m <sup>3</sup> TWA (inhalable fraction)	N/E	N/E

Chemical Name	UK WEL	Ireland OEL
Silica, amorphous	6 mg/m <sup>3</sup> TWA (inhalable dust), 2.4 mg/m <sup>3</sup> TWA (respirable dust), 18 mg/m <sup>3</sup> STEL (inhalable dust), 7.2 mg/m <sup>3</sup> STEL (respirable dust)	6 mg/m <sup>3</sup> TWA (total inhalable dust), 2.4 mg/m <sup>3</sup> TWA (respirable dust), 18 mg/m <sup>3</sup> STEL (total inhalable dust), 7.2 mg/m <sup>3</sup> STEL (respirable dust)
Triisobutylene	N/E	N/E
Diisobutylene (2,4,4-trimethylpentene)	N/E	N/E
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	10 mg/m <sup>3</sup> TWA (inhalable dust), 30 mg/m <sup>3</sup> STEL (inhalable dust)	10 mg/m <sup>3</sup> TWA, 30 mg/m <sup>3</sup> STEL (Sensitizer)

N/E=Not established (no exposure limits established for the listed substances for listed country/region/organization).

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). Belgium: 3 mg/m<sup>3</sup> TWA (alveolar fraction); 10 mg/m<sup>3</sup> TWA (inhalable fraction). Germany MAK Values for dust: 1.5 mg/m<sup>3</sup> MAK (respirable fraction); 4 mg/m<sup>3</sup> MAK (inhalable fraction). Portugal: 10 mg/m<sup>3</sup> TWA (inhalable fraction); 3 mg/m<sup>3</sup> TWA (respirable fraction). Spain: 10 mg/m<sup>3</sup> VLA-ED (inhalable fraction); 3 mg/m<sup>3</sup> VLA-ED (respirable fraction).

### Derived No Effect Levels (DNELs) - Workers:

Chemical Name	Inhalation-Acute (local)	Inhalation-Acute (systemic)	Inhalation-Long Term (local)	Inhalation-Long Term (systemic)
Silica, amorphous	N/E	N/E	N/E	N/E
Triisobutylene	N/E	N/E	N/E	N/E
Diisobutylene (2,4,4-trimethylpentene)	N/E	N/E	N/E	N/E
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	N/E	N/E	N/E	N/E
Chemical Name	Dermal-Acute (local)	Dermal-Acute (systemic)	Dermal-Long Term (local)	Dermal-Long Term (systemic)
Silica, amorphous	N/E	N/E	N/E	N/E
Triisobutylene	N/E	N/E	N/E	N/E
Diisobutylene (2,4,4-trimethylpentene)	N/E	N/E	N/E	N/E
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	N/E	N/E	N/E	N/E

### Predicted No Effect Concentration (PNECs):

Chemical Name	Freshwater	Marine water	Intermittent releases	Soil
Silica, amorphous	N/E	N/E	N/E	N/E
Triisobutylene	N/E	N/E	N/E	N/E
Diisobutylene (2,4,4-trimethylpentene)	N/E	N/E	N/E	N/E
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	N/E	N/E	N/E	N/E

<b>Chemical Name</b>	<b>Sediment (freshwater)</b>	<b>Sediment (marine)</b>	<b>STP</b>	<b>Oral</b>
Silica, amorphous	N/E	N/E	N/E	N/E
Triisobutylene	N/E	N/E	N/E	N/E
Diisobutylene (2,4,4-trimethylpentene)	N/E	N/E	N/E	N/E
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	N/E	N/E	N/E	N/E

N/E=Not established; N/A=Not applicable (not required); bw=body weight; dw=dry weight; ww=wet weight.

## 8.2. 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:** Safety glasses or goggles required.

**Hand protection:** Avoid skin contact when mixing or handling the material by wearing impervious and chemical resistant gloves. In case of prolonged immersion or frequently repeated contact, gloves with breakthrough times greater than 240 minutes (protection class 5 or greater) are recommended. For brief contact or splash applications, gloves with breakthrough times of 10 minutes or greater are recommended (protection class 1 or greater). The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. Suitability and durability of a glove is dependent on usage (e.g. frequency and duration of contact, other chemicals which may be handled, chemical resistance of glove material and dexterity). Always seek advice of the glove supplier as to the most suitable glove material.

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

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS. 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.

**Environmental exposure controls:** See Sections 6 and 12.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties:

<b>Form:</b>	Solid	<b>pH:</b>	Not Available
<b>Appearance:</b>	Cream to tan	<b>Relative density:</b>	1.26
<b>Odour:</b>	Not Available	<b>Partition coefficient (n-octanol/water):</b>	Not Available
<b>Odour 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>	Not Available
<b>Vapour pressure:</b>	Not Available	<b>Boiling point °F:</b>	Not Available
<b>Vapour density:</b>	Not Available	<b>Flash point:</b>	>65 °C (>150 °F) Estimated
<b>Viscosity:</b>	Not Applicable	<b>Autoignition temperature:</b>	Not Available
<b>Melting point/Freezing point:</b>	Not Available	<b>Flammability (solid, gas):</b>	May form combustible dust concentrations in air.
<b>Oxidising properties:</b>	Not oxidizing	<b>Flammability or explosive limits:</b>	LFL/LEL: Not Available
<b>Explosive properties:</b>	Not explosive		UFL/UEL: Not Available
<b>Decomposition temperature:</b>	Not Available		

### 9.2. Other information:

Amounts specified are typical and do not represent a specification.

## SECTION 10: Stability and reactivity

**10.1. Reactivity:**

None known.

**10.2. Chemical stability:**

This product is stable.

**10.3. Possibility of hazardous reactions:**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid:**

Excessive heat and ignition sources. Avoid dust formation.

**10.5. Incompatible materials:**

Avoid strong acids, bases, and oxidizing agents.

**10.6. Hazardous decomposition products:**

Carbon dioxide, carbon monoxide and hydrocarbons.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects:****Information on likely routes of exposure:**

**General:** Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure. Overexposure may cause central nervous system depression. 4,4'-(METHYLETHYLIDENE) BISPHENOL: Possible risk of impaired fertility. TRIISOBUTYLENE: High vapor concentrations may result in central nervous system depression. Aspiration hazard if swallowed-can enter lungs and cause damage.

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

**Skin:** Repeated or prolonged skin contact may cause allergic reactions. Certain alkylated phenols have been implicated with depigmentation of the skin (vitiligo).

**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). No toxicity studies have been conducted on this product. ATEmix (oral): >2000 mg/kg. ATEmix (dermal): >2000 mg/kg.

<b>Chemical Name</b>	<b>Inhalation LC50</b>	<b>Species</b>	<b>Oral LD50</b>	<b>Species</b>	<b>Dermal LD50</b>	<b>Species</b>
Silica, amorphous	>2.2 mg/L (1 hour, no mortalities)	Rat/ adult	>10,000 mg/kg	Rat/ adult	>5000 mg/kg	Rabbit/ adult
Triisobutylene	>19.17 mg/L (4 hours, vapor, similar materials)	Rat/ adult	>2000 mg/kg	Rat/ adult	>2000 mg/kg	Rat/ adult
Diisobutylene (2,4,4-trimethylpentene)	>4185 ppm (4 hours, no mortalities)	Rat/ adult	>2000 mg/kg	Rat/ adult	>2000 mg/kg	Rat/ adult
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	>0.17 mg/L (6 hours)	Rat/ adult	3200 mg/kg	Rat/ adult	3000 mg/kg	Rabbit/ adult

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

<b>Chemical Name</b>	<b>Skin irritation</b>	<b>Species</b>
Silica, amorphous	Non-irritant	Rabbit/ adult
Triisobutylene	Moderate irritant	Rabbit/ adult
Diisobutylene (2,4,4-trimethylpentene)	Slight irritant	Rabbit/ adult
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	Mild irritant	Rabbit/500 mg

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

<b>Chemical Name</b>	<b>Eye irritation</b>	<b>Species</b>
Silica, amorphous	Non-irritant	Rabbit/ adult

<u>Chemical Name</u>	<u>Eye irritation</u>	<u>Species</u>
Triisobutylene	Non-irritant	Rabbit/ adult
Diisobutylene (2,4,4-trimethylpentene)	Slight irritant	Rabbit/ adult
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	Severe irritant	Rabbit/ adult

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

<u>Chemical Name</u>	<u>Skin sensitisation</u>	<u>Species</u>
Silica, amorphous	Non-sensitizer	N/E
Triisobutylene	Non-sensitizer	Guinea Pig/ adult
Diisobutylene (2,4,4-trimethylpentene)	Non-sensitizer	Guinea Pig/ adult
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	N/E	N/E

**Carcinogenicity:** Not classified.

**Germ cell mutagenicity:** Not classified. 4,4'-(METHYLETHYLIDENE) BISPENOL: Mixed results were seen in in-vitro genotoxicity assays.

**Reproductive toxicity:** Not classified. 4,4'-(METHYLETHYLIDENE) BISPENOL: Fetotoxic effects were observed only at doses that induced maternal toxicity. Did not cause birth defects in laboratory animals. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

**Specific target organ toxicity (STOT) - single exposure:** Not classified.

**Specific target organ toxicity (STOT) - repeated exposure:** Not classified. 4,4'-(METHYLETHYLIDENE) BISPENOL: Liver, kidney and bladder effects were observed in some laboratory animal feeding studies.

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

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

## SECTION 12: Ecological information

### 12.1. Toxicity:

No ecological testing has been conducted on this product.

<u>Chemical Name</u>	<u>Fish 96 hour LC50</u>	<u>Fish 96 hour LC50</u>	<u>Fish Chronic NOEC</u>
Silica, amorphous	>10000 mg/L	N/E	N/E
Triisobutylene	>1.55 mg/L (similar materials)	N/E	N/E
Diisobutylene (2,4,4-trimethylpentene)	0.58 mg/L	3 mg/L	N/E
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	3.6-5.5 mg/L	4-7.5 mg/L	16 µg/L (444 days)
<u>Chemical Name</u>	<u>Invertebrates 48 hour EC50</u>	<u>Invertebrates 24 hour EC50</u>	<u>Invertebrates Chronic NOEC</u>
Silica, amorphous	>10000 mg/L	N/E	N/E
Triisobutylene	>3.1 mg/L (similar materials)	N/E	N/E
Diisobutylene (2,4,4-trimethylpentene)	1.2 mg/L	N/E	0.16 mg/L (21 days)
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	9.2-11.4 mg/L	N/E	N/E
<u>Chemical Name</u>	<u>Algae 96 hour EC50</u>	<u>Algae 72 hour EC50</u>	<u>Algae Chronic NOEC</u>
Silica, amorphous	N/E	440 mg/L (similar materials)	N/E
Triisobutylene	N/E	>19.2 mg/L (similar materials)	N/E
Diisobutylene (2,4,4-trimethylpentene)	N/E	1.5 mg/L	N/E
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	2.5 mg/L	N/E	N/E

### 12.2. Persistence and degradability:

No specific information available.

<u>Chemical Name</u>	<u>Biodegradation</u>
Silica, amorphous	Not applicable (inorganic)
Triisobutylene	Readily biodegradable
Diisobutylene (2,4,4-trimethylpentene)	Not readily biodegradable
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	Readily biodegradable

### 12.3. Bioaccumulative potential:

No specific information available.

<u>Chemical Name</u>	<u>Bioconcentration Factor (BCF)</u>	<u>Log Kow</u>
Silica, amorphous	N/E	no bioaccumulation expected
Triisobutylene	N/E	4.12-9.91
Diisobutylene (2,4,4-trimethylpentene)	N/E	4.12-9.91
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	5.1-13.8 (OECD 305C)	3.32

SDS Name: SUPERLITE\* Solid NG

**12.4. Mobility in soil:**

No specific information available.

<u>Chemical Name</u>	<u>Mobility in soil (Koc/Kow)</u>
Silica, amorphous	inert material
Triisobutylene	3.44-8.13
Diisobutylene (2,4,4-trimethylpentene)	N/E
4,4'-(Methylethylidene) bisphenol (Bisphenol A)	N/E

**12.5. Results of PBT and vPvB assessment:**

Not Available

**12.6. Other adverse effects:**

No additional information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods:**

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.

**14.1. UN number:** N/A

**14.2. UN proper shipping name:**

Not regulated - See Bill of Lading for Details

**14.3. 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.

**14.4. Packing group:** N/A

**14.5. Environmental hazards:**

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

**14.6. Special precautions for user:**

Not Applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code:**

<u>Chemical Name</u>	<u>Category</u>
Diisobutylene (2,4,4-trimethylpentene)	Category Y



## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Europe REACH (EC) 1907/2006:** Applicable components are pre-registered, exempt or otherwise compliant. REACH is only relevant to substances either manufactured or imported into the EU. Emerald Performance Materials has met its obligations under the REACH regulation. 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 must understand and meet their specific obligations under the regulation.

**EU Authorizations and/or restrictions on use:** This product contains a component listed on the Annex XIV Candidate List of Substances of Very High Concern (SVHC): 4,4'-isopropylidenediphenol (Bisphenol A). This product contains a component listed on Regulation (EC) 1907/2006 Annex XVII RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES: Bisphenol A.

**Other EU information:** No Additional Information

**National 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):	N
Japan Industrial Safety and Health Law (ISHL):	Y
Korean Existing and Evaluated Chemical Substances (KECL):	N
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.

### 15.2. Chemical safety assessment:

Not Applicable

## SECTION 16: Other information

### Hazard (H) Statements in the Composition section (Section 3):

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**Reason for revision:** Changes in Section(s): 3

**Evaluation method for classification of mixtures:** Calculation method, On basis of test data, Read-across

#### Legend:

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

ACGIH: American Conference of Governmental Industrial Hygienists

SDS Name: SUPERLITE\* Solid NG

EU OELV: European Union Occupational Exposure Limit Value

EU IOELV: European Union Indicative Occupational Exposure Limit Value

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:

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