

Revision Date: 21/05/2013

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

### 1.1 Product identifier

**Product Name** Green Seal II

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

**Recommended Use** Anti-seize  
**Uses advised against** No information available

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

TOPCO OILSITE PRODUCTS LTD.  
Bay 7, 3401 - 19 Street N.E.  
Calgary, Alberta  
CANADA T2E 6S8  
Tel.: (403) 219-0255  
Fax: (403) 291-3042  
MSDS@TOPCOOILSITE.COM

### 1.4 Emergency telephone number

National Poisons Information Service (London Centre)  
+44 20 7771 5307

CANUTEC (Canada), 001-613-996-6666, Cell: \*666, TTY/TDD: 1-888-675-6863

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification (1272/2008/EC)**  
Not classified

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**  
Not classified

### 2.2 Label elements

None

### 2.3 Other hazards

None known

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548/EEC)	Classification (1272/2008/EC)	REACH Registration Number
Graphite	231-955-3	7782-42-5	15 - 30	-	-	no data available
Polyethylene	-	9002-88-4	< 10	-	-	no data available
Hydrated magnesium silicate	238-877-9	14807-96-6	< 10	-	-	no data available
Carbon black	215-609-9	1333-86-4	< 5	-	-	no data available

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>General advice</b>	No hazards which require special first aid measures.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water.
<b>Inhalation</b>	Move to fresh air. Get medical attention immediately if symptoms occur.
<b>Protection of first-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

**Main symptoms** No information available.

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

**Notes to physician** Treat symptomatically.

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## SECTION 5: FIRST AID MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media** The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which must not be used for safety reasons** Do NOT use water jet.

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

**Special hazard** Hazardous decomposition products formed under fire conditions: Carbon oxides, Metal oxides. Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit.

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## SECTION 6: FIRE FIGHTING MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Evacuate non-essential personnel. Use personal protective equipment.

### 6.2 Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses. Avoid subsoil penetration.

### 6.3 Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

### 6.4 Reference to other sections

See sections 8 and 13.

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**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wear personal protective equipment.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local regulations. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

**7.3 Specific end use(s)**

**Exposure Scenario** Not available.

**Other information** Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Graphite		STEL: 30 mg/m <sup>3</sup> (inh) STEL: 12 mg/m <sup>3</sup> (resp) TWA: 10 mg/m <sup>3</sup> (inh) TWA: 4 mg/m <sup>3</sup> (resp)	VME: 2 mg/m <sup>3</sup> (alv)	VLA-ED: 2 mg/m <sup>3</sup> (inh)	MAK: 1.5 mg/m <sup>3</sup> (alv) MAK: 4 mg/m <sup>3</sup> (inh)
Hydrated magnesium silicate		TWA: 1 mg/m <sup>3</sup> (resp)		VLA-ED: 2 mg/m <sup>3</sup> (resp)	
Carbon black		STEL: 7 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup>	VME: 3.5 mg/m <sup>3</sup>	VLA-ED: 3.5 mg/m <sup>3</sup>	

Chemical Name	Italy	Portugal	Netherlands	Denmark	Poland
Graphite		TWA: 2 mg/m <sup>3</sup> (resp)		STEL: 5 mg/m <sup>3</sup> (resp) TWA: 2.5 mg/m <sup>3</sup> (resp)	NDS: 4.0 mg/m <sup>3</sup> (inh) NDS: 1.0 mg/m <sup>3</sup> (resp) NDS: 6.0 mg/m <sup>3</sup> (synthetic, inh)
Hydrated magnesium silicate		VLE-MP: 0.1 fiber/cm <sup>3</sup>	TGG-8hr: 0.25 mg/m <sup>3</sup> (resp)	TWA: 0.3 fiber/cm <sup>3</sup>	NDS: 4 mg/m <sup>3</sup> (inh) NDS: 1 mg/m <sup>3</sup> (resp)
Carbon black		TWA: 3.5 mg/m <sup>3</sup>		STEL: 7.0 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup>	NDS: 4.0 mg/m <sup>3</sup>

Chemical Name	Belgium	Sweden	Hungary	Finland	Czech Republic
Graphite	TWA: 2 mg/m <sup>3</sup> (resp)	TWA: 5 mg/m <sup>3</sup> (inh)		TWA: 2 mg/m <sup>3</sup>	TWA: 2.0 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Polyethylene					TWA: 5.0 mg/m <sup>3</sup>
Hydrated magnesium silicate	TGG 8 hr: 2 mg/m <sup>3</sup> (resp)	NGV: 2 mg/m <sup>3</sup> (inh) NGV: 1 mg/m <sup>3</sup> (resp)	TWA: 2 mg/m <sup>3</sup> (resp)	HTP-arvot 8h: 0.5 fiber/cm <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> (inh)
Carbon black	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>		TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 2.0 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2 Exposure controls

**Appropriate engineering controls** Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

#### Individual protection measures, such as personal protective equipment

**Eye protection** Tightly fitting safety goggles.  
**Hand protection** Impervious gloves: Natural Rubber, Latex gloves. Break through time: 4 - 8 hours.  
**Skin and body protection** Long sleeved clothing.  
**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure Controls** The product should not be allowed to enter drains, water courses or the soil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state @20°C</b>	solid
<b>Appearance</b>	Wax like
<b>Colour</b>	black
<b>Odour</b>	petroleum distillates ( slight )
<b>pH</b>	No information available
<b>Melting/freezing point</b>	No information available
<b>Boiling point/boiling range</b>	386 °C
<b>Flash point</b>	> 386 °C ( ASTM D92 )
<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Flammability Limits in Air</b>	No information available
<b>Vapour pressure</b>	No information available
<b>Vapour density</b>	No information available
<b>Relative density</b>	No information available
<b>Solubility</b>	
<b>Water solubility</b>	Insoluble in water
<b>Partition coefficient (n-octanol/water)</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidising Properties</b>	No information available

### 9.2 Other information

<b>Density</b>	1.12 g/cm <sup>3</sup>
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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Inert, not reactive.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4 Conditions to avoid**

Heat, flames and sparks.

**10.5 Incompatible materials**

None in particular.

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions: Carbon oxides, Metal oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity**  
**Ingestion** No known effect.  
**Skin contact** No known effect.  
**Inhalation** No known effect.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Graphite	10000 mg/kg ( Rat )		
Polyethylene	> 2000 mg/kg ( rat )		
Carbon black	15400 mg/kg ( Rat )	3000 mg/kg ( Rabbit )	

**Skin corrosion/irritation** No known effect.

**Serious eye damage/irritation** No known effect.

**Respiratory or skin sensitisation** No known effect.

**Germ cell mutagenicity** Not known to cause heritable genetic damage.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Reproductive toxicity** Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.

**STOT-single exposure** No known effect.

**STOT-repeated exposure** No known effect.

**Aspiration hazard** No known effect.



## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Contains no substances known to be hazardous for the environment.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates.
Carbon black				EC50: 5600 mg/L Daphnia magna 24 h

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### **Waste from residues / unused products**

Dispose of as hazardous waste in compliance with local and national regulations.

#### **Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14: TRANSPORT INFORMATION**

According to: ADR, RID, ADN, IMDG, ICAO.

**14.1 UN number**

Not regulated.

**14.2 UN proper shipping name**

Not regulated.

**14.3 Transport hazard class(es)**

Not regulated.

**14.4 Packing group**

Not regulated.

**14.5 Environmental hazards**

Not applicable.

**14.6 Special precautions for user**

Not applicable.

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

Not applicable.

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**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Restrictions on use**                      None.

**Other regulations**                      None.

**15.2 Chemical safety assessment**

Not required.

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**SECTION 16: OTHER INFORMATION**

**Full text of R-phrases referred to under sections 2 and 3**

No information available

**Full text of H-Statements referred to under sections 2 and 3**

No information available

**Revision Note**

Emergency telephone.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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