



# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 2012

Revision date: 18-Dec-2014

Supersedes: 07-Jan-2011

SDS Number: 10909

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

Product name: BENTONE GEL® SS71 V

### Other means of identification

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

Product Use Description: Rheological additive

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

**Company/Undertaking Identification** Elementis Specialties, Inc.  
469 Old Trenton Road  
East Windsor, NJ 08512  
USA  
Tel: +1 (609) 443-2000

Elementis UK Ltd.  
c/o Elementis GmbH  
Stolberger Str. 370  
50933 Cologne, Germany  
Tel. +49 (0) 221 2923 2000

### **Emergency Telephone Number**

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at: 1-800-424-9300 or 1-703-527-3887

For ALL other inquiries about this product, call Elementis Specialties at: 1-609-443-2000 (USA) or +(49)-221-2923-2000 (EU)

Product\_Stewardship@elementis.com

## 2. HAZARDS IDENTIFICATION

### **Classification**

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
Flammable solids	Category 2

### Label Elements

### EMERGENCY OVERVIEW

#### Warning

#### Hazard Statements

Causes serious eye irritation  
Flammable solids

**Appearance:** Gel**Physical state:** Solid**Odor:** Petroleum like**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Ground/Bond container and receiving equipment  
 Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Hazards not otherwise classified (HNOC)****Other Information****3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Components	CAS-No	Weight %
Stoddard solvent	8052-41-3	50 - 100%
Propylene carbonate	108-32-7	2.5 - 10%

**4. FIRST AID MEASURES****FIRST AID MEASURES**

<b>General Advice</b>	Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.
<b>Inhalation:</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.
<b>Skin contact:</b>	Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
<b>Eye contact:</b>	Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this SDS or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
<b>Protection of first-aiders:</b>	Avoid contact with skin and eyes.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects:** Severe eye irritation. Redness. Swelling of tissue.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Dry sand  
Alcohol-resistant foam

**Extinguishing media which must not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

None in particular

**Unusual Fire and Explosion Hazards:**

Emits toxic fumes under fire conditions

**Hazardous combustion products:**

Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Gaseous hydrogen chloride (HCl)

**Explosion data****Explosive properties:**

Vapors may form explosive mixtures with air

**Reactivity Hazard:**

None known

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Keep people away from and upwind of spill/leak. Use personal protective equipment.

**Other Information:** See Section 12 for additional information.

**Environmental precautions**

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up**

**Clean-up methods:** Take precautionary measures against static discharges. Soak up with inert absorbent material and dispose of as hazardous waste. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Handling:** Take precautionary measures against static discharges. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

**Storage conditions** Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.

**Additional Storage:** Not required under normal use

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Components	OSHA STEL	OSHA PEL	OSHA TWA	OEL - Long-term TWA
Stoddard solvent		2900 mg/m <sup>3</sup> 500 ppm	525 mg/m <sup>3</sup> 100 ppm	

  

Components	ACGIH TLV	AIHA TLV	OSHA TWA	IDLH:
Stoddard solvent 8052-41-3	TWA: 100 ppm			20000 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Measures** Maintain adequate engineering controls and/or ventilation to keep hazardous ingredients below their statutory limits. Use an approved respirator whenever exposure limits are exceeded

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

**Eye protection** Tightly fitting safety goggles.

**Skin and body protection** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place

**Respiratory protection:** In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**Hand protection** Protective gloves, Neoprene gloves,

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state:** Solid  
**Appearance:** Gel  
**Odor:** Petroleum like  
**Color:** Light tan  
**Odor Threshold** No data available

<u>Property</u>	<u>Values</u>	<u>Remarks / • Method</u>
pH	No data available	
Melting point/range:	No data available	
Freezing point:	No data available	
Boiling Point/Range	No data available	
Flash Point	49 °C / 120 °F	Seta CC
Evaporation rate	No data available	
Explosion limits:	LEL: 1.0% (Naphtha) UEL: 6.0% (Naphtha)	
Vapor pressure	4.0 mm Hg	
Vapor density	No data available	
Density:	No data available	
Water solubility	insoluble	
Solubility in other solvents	No data available	
Partition coefficient: n-octanol/water	No data available	
Autoignition temperature	Not self-igniting	
Decomposition temperature	No data available	
Viscosity:	No data available	
Explosive properties:	Vapors may form explosive mixtures with air	
Oxidizing Properties	No information available	

**Other Information**

**Bulk Density** No data available

**10. STABILITY AND REACTIVITY****Reactivity**

No dangerous reaction known under conditions of normal use

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None known

**Conditions to Avoid**

Heat, flames and sparks

**Incompatible Materials:**

Oxidizing agents

**Hazardous Decomposition Products**

None reasonably foreseeable

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Inhalation:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Skin contact:</b>	No data available.
<b>Ingestion</b>	No data available.

**Product Information**

No data is available on the product itself

**Component Information**

Components	LD50/Oral	LD50/Dermal	LC50/inhalation
Stoddard solvent 8052-41-3	> 5000 mg/kg (rat)	> 3000 mg/kg (rabbit)	> 5500 mg/m <sup>3</sup>
Propylene carbonate 108-32-7	29 gm/kg (rat) 20,700 mg/kg (mouse)	> 20 gm/kg (rabbits)	> 5 gm/m <sup>3</sup>

**Information on Toxicological Effects****Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Corrosivity</b>	Causes serious eye irritation.
<b>Sensitization</b>	No sensitizing effects known
<b>Mutagenic effects</b>	No information available.
<b>Carcinogenic effects:</b>	Stoddard solvent has been reviewed by IARC. There is inadequate evidence for the carcinogenicity of petroleum solvents in humans. No data were available on the carcinogenicity of special boiling range solvents or white spirits in experimental animals. Therefore, the working group concluded that Petroleum solvents (stoddard solvent) are not classifiable as to their carcinogenicity to humans (Group 3).

Components	ACGIH	IARC	NTP	OSHA
Stoddard solvent 8052-41-3		Group 3 - Unclassifiable as to carcinogenicity to humans		

**Reproductive Toxicity:** No information available

**Developmental Toxicity** No information available.

**Chronic Toxicity**

**Chronic toxicity:** No data is available on the product itself

**Other Adverse Effects:** No information available.

**12. ECOLOGICAL INFORMATION**

**Product Information** There is no data available for this product

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Components	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Propylene carbonate 108-32-7	500: 72 h Desmodesmus subspicatus mg/L EC50	1000: 96 h Cyprinus carpio mg/L LC50 semi-static 5300: 96 h Leuciscus idus mg/L LC50 static	EC50: 500 mg/L (48 h)

Components	LC50	EC50	Bioaccumulation Concentration Factor	No Observable Effect Concentration/96hr/ 48hr/24hr (NOEC)
Propylene carbonate	2200 mg/L (freshwater, fish)	500 mg/L (Daphnia magna; 48hr)		

**Persistence and degradability:**

No data available

**Bioaccumulative potential:**

Components	Log Pow
Propylene carbonate	0.48

**Mobility:**

No information available

**General Note:**

Do not allow product to reach ground water, water course or sewage system.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste from residues / unused products** Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with Local and National regulations.

**Contaminated packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

**RCRA Hazardous Waste:**

**RCRA:** Characteristic Waste - D001 (ignitable)

**14. TRANSPORT INFORMATION**

**U.S. Department of Transportation Ground (49 CFR):**

**UN-No:** 1325  
**Proper shipping name:** `FLAMMABLE SOLID, ORGANIC, N.O.S. (Petroleum distillates)`  
**Hazard Class:** 4.1  
**Packaging group:** II  
**Marine pollutant:** No

**International Air Transportation (ICAO/IATA):**

**UN-No:** 1325  
**Proper shipping name:** `FLAMMABLE SOLID, ORGANIC, N.O.S. (Petroleum distillates)`  
**Hazard Class:** 4.1  
**Hazard Labels:** 4.1  
**Packing group:** II

**International Maritime Organization (IMO/IMDG):**

**UN-No** 1325  
**Proper Shipping Name** `FLAMMABLE SOLID, ORGANIC, N.O.S. (Petroleum distillates)`  
**Hazard Class** 4.1  
**Hazard Labels:** 4.1  
**Packing Group** II  
**EmS:** F-A, S-G  
**IMDG - Marine Pollutants :** No

**Surface Shipments in Europe (ADR/RID):**

**ADR/RID:** 4.1 Flammable solids  
**UN-No:** 1325  
**Proper shipping name:** `FLAMMABLE SOLID, ORGANIC, N.O.S. (Petroleum distillates)`  
**Hazard Class:** 4.1  
**Packing group:** II

**Hazard Labels:** 4.1  
**Environmental hazard mark:** No

## 15. REGULATORY INFORMATION

### International Inventories

<b>USA (TSCA):</b>	In Compliance
<b>EU (EINECS):</b>	In Compliance
<b>REACH</b>	In Compliance
<b>CANADA (DSL)</b>	In Compliance
<b>CANADA (NDSL):</b>	Not applicable
<b>JAPAN (ENCS):</b>	In Compliance
<b>PHILIPPINES (PICCS):</b>	In Compliance
<b>KOREA (KECL):</b>	In Compliance
<b>China (IECSC)</b>	In Compliance
<b>AUSTRALIA (AICS):</b>	In Compliance
<b>NEW ZEALAND (NZIoC):</b>	In Compliance
<b>TAIWAN (NECSI):</b>	In Compliance

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**REACH** - Registration, Evaluation, Authorisation and Restriction of Chemicals  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**NECSI** - Taiwan Inventory of Chemicals

### Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

Fire Hazard  
 Acute Health Hazard

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **TSCA Section 12(b) Export Notification**

This product does not contain chemicals that are required to be notified under the TSCA 12(b) Export Notification.

### **State Regulations (RTK)**

#### **California Proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects



**Canada**

**WHMIS hazard class:** B4 Flammable solid  
D2B Skin or Eye irritation

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**16. OTHER INFORMATION****HMIS:**

**Health:** 1  
**Flammability:** 2  
**Physical Hazard:** 0

**This Material Safety Data Sheet contains changes from the previous version in Sections:** 1 - 16

**Previous Revision Date:** 07-Jan-2011

**Key/Legend:** N/A: Not applicable  
N/D: Not determined  
ppm: Parts per million  
X: Listed

**Prepared by** Product Stewardship

The information provided in this Safety Data Sheet is correct to the best of ELEMENTIS' knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific product designated and may not be valid for such product when used in combination with any other material or in any process, unless specified in this SDS. ELEMENTIS specifically disclaims any liability for any loss, injury or damage which may result from use or misuse of this product.

All chemicals should be handled only by competent personnel, within a controlled environment. It is the buyer's/user's responsibility to ensure that his activities comply with all applicable federal, state, provincial and local laws, and to determine the conditions necessary for the safe use of this product. ELEMENTIS urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product.

**End of Safety Data Sheet**