



# Bondaglass-Voss Ltd

158-160 Ravenscroft Road Beckenham Kent,  
BR3 4TW  
Tel: 020-8778-0071  
Fax: 020-8659-5297  
EMAIL [bondaglass@btconnect.com](mailto:bondaglass@btconnect.com)

## ALL COMPONENT POLYESTER BASED FILLERS

Eg. EASY SAND – BODYLIGHT – V11 – WOODFILL – FEW – FERRO SPRAY

## HEALTH AND SAFETY DATA SHEET

---

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

**Product identifier** - All 2 component polyester resin based fillers

**Manufacturer/Supplier:**

Bondaglass-Voss Ltd  
158-160 Ravenscroft Road  
Beckenham  
Kent  
BR3 4TW  
Email: [bondaglass@btconnect.com](mailto:bondaglass@btconnect.com)

### 2 HAZARD IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



*GHS02 flame*

Flam. Liq. 3

H226 Flammable liquid and vapour.



*GHS08 health hazard*

H361d  
H372

Suspected of damaging the unborn child.  
Causes damage to organs through prolonged or repeated exposure. Route of exposure: Inhalative.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R20-48/20-63: Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

R10: Flammable.

**Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**Label elements****Labelling according to Regulation (EC) No 1272/2008**

*The product is classified and labelled according to the CLP regulation.*

**Hazard pictograms**

GHS02

GHS07

GHS08

**Signal word** Harmful

**Hazard-determining components of labelling:**

Styrene

**Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure. Route of exposure: Inhalative.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical characterization: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

<i>· Dangerous components:</i>		
CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	styrene ☒ Xn R20-48/20-63-65; ☒ Xi R36/37/38 R10 Repr. Cat. 3 ☠ Flam. Liq. 3, H226; ☠ Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; ☠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	10-25%

**Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4. FIRST AID MEASURES

#### Description of first aid measures

##### General information:

Personal protection for the First Aider.

Take affected persons out of danger area and lie down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

##### After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

##### After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

##### After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** Do not induce vomiting; call for medical help immediately.

### 5. FIREFIGHTING MEASURES

#### Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.

#### Advice for firefighters

##### Protective equipment:

Wear self-contained respiratory protection. Do not inhale explosion gases or combustion gases.

##### Additional information

Cool endangered containers with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Keep unprotected persons away.

Avoid contact with the eyes and skin.

Ensure adequate ventilation

Do not inhale gases / fumes / aerosols. Keep away from ignition sources.

### **Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Do not flush with water or aqueous cleansing agents

### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

Keep containers tightly sealed.

Ensure good ventilation at the workplace. Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

### **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Fumes can combine with air to form an explosive mixture.

Protect against electrostatic charges.

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

#### **Storage:**

**Requirements to be met by storerooms and containers:** Store only in the original container.

#### **Information about storage in one common storage facility:**

Store away from oxidizing agents. Store away from foodstuffs.

#### **Further information about storage conditions:**

Store in cool, dry conditions in well sealed container. Store container in a well ventilated area.

Protect from heat and direct sunlight.

**Recommended storage temperature:** < 30 °C

**Specific end use(s)** No further relevant information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Additional information about design of technical facilities:** No further data; see item 7

Control parameters

<b>· Ingredients with limit values that require monitoring at the workplace:</b>		
<b>100-42-5 styrene</b>		
<i>WEL (Great Britain)</i>	<i>Short-term value: 1080 mg/m<sup>3</sup>, 250 ppm Long-term value: 430 mg/m<sup>3</sup>, 100 ppm</i>	
<b>· DNELs</b>		
<b>100-42-5 styrene</b>		
<i>Oral</i>	<i>Long-term exposure - systemic effects</i>	<i>2.1 mg/kg bw/day (general population)</i>
<i>Dermal</i>	<i>Long-term exposure - systemic effects</i>	<i>343 mg/kg bw/day (general population) 406 mg/kg bw/day (worker)</i>
<i>Inhalative</i>	<i>Acute/short-term exposure - local effects</i>	<i>182.75 mg/m<sup>3</sup> (general population) 306 mg/m<sup>3</sup> (worker)</i>
	<i>Acute/short-term exposure - systemic effects</i>	<i>174.25 mg/m<sup>3</sup> (general population) 289 mg/m<sup>3</sup> (worker)</i>
	<i>Long-term exposure - systemic effects</i>	<i>10.2 mg/m<sup>3</sup> (general population) 85 mg/m<sup>3</sup> (worker)</i>
<b>· PNECs</b>		
<b>100-42-5 styrene</b>		
<i>PNEC STP</i>	<i>5 mg/l (-)</i>	
<i>PNEC aqua</i>	<i>0.028 mg/l (freshwater)</i>	
	<i>0.0028 mg/l (marine water)</i>	
	<i>0.04 mg/l (intermittent releases)</i>	
<i>PNEC sediment</i>	<i>0.614 mg/kg (freshwater)</i>	
	<i>0.0614 mg/kg (marine water)</i>	
<i>PNEC soil</i>	<i>0.2 mg/kg (soil dw)</i>	

**Additional information:** The lists valid during the making were used as basis.

### Exposure controls

#### Personal protective equipment:

**General protective and hygienic measures:** Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages.

Do not eat, drink, smoke while working. Store protective clothing separately.

Immediately remove all soiled and contaminated clothing. Take off contaminated clothing and wash before reuse.

Use skin protection cream for skin protection.

#### Respiratory protection:

Ensure good ventilation at the workplace.

Adhere to the workplace limit values and or other threshold values.

In case of brief exposure or low pollution use respiratory filter. In case of intensive or longer exposure use self-contained respiratory protection.

Filter A/P2

**Protection of hands:** Protective Gloves

The glove material has to be impermeable and resistant to the product / the substance/ the preparation .  
Check the permeability prior to each use of the glove.  
Preventive skin protection by use of skin-protecting agents is recommended.

**Eye Protection** Safety Glasses

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

**Form:** Pasty  
**Colour:** Varied  
**Odour:** Characteristic  
**pH-value:** Not determined

#### Change in condition

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 145 °C

· <b>Flash point:</b>	31 °C
· <b>Ignition temperature:</b>	480 °C
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits: Lower:</b>	
<b>Upper:</b>	1.2 Vol % 8.9 Vol %
· <b>Vapour pressure at 20 °C:</b>	6 hPa
· <b>Density at 20 °C:</b>	1.6 g/cm <sup>3</sup>
· <b>Vapour density</b>	Not determined
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

## 10. STABILITY AND REACTIVITY

**Reactivity** No decomposition if used according to specifications.

**Chemical stability** No decomposition if used and stored according to specifications.

**Possibility of hazardous reactions**

Reacts with peroxides and other radical forming substances. Exothermic polymerization.

**Conditions to avoid**

Protect from heat.

Avoid naked flames, sparks, other ignition sources and sunlight.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:**

Formation of toxic gases is possible during heating or in case of fire.

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

**Acute toxicity:**

· <i>LD/LC50 values relevant for classification:</i>		
<i>100-42-5 styrene</i>		
<i>Oral</i>	<i>LD50</i>	<i>5000 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD 50</i>	<i>&gt;2000 mg/kg (rat) (OECD 402)</i>
<i>Inhalative</i>	<i>LC50 /4h</i>	<i>11.8mg/l (rat)</i>

**Primary irritant effect:**

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

· <i>Subacute to chronic toxicity:</i>		
<i>100-42-5 styrene</i>		
<i>Inhalative</i>	<i>NOAEL (subacute)</i>	<i>0.85 mg/l (rat) (13w, 6h/day, Vapour)</i>
	<i>NOAEL (subchronic)</i>	<i>0.8 mg/l (rat) (OECD 453, 2a, 6h/day, Vapour)</i>

**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

**Sensitisation** No sensitizing effects known

**CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

Suspected of damaging the unborn child. Repr. 2

<b>· Carcinogenicity</b>		
<b>100-42-5 styrene</b>		
Inhalative	NOAEL (carcinogenicity)	4.34 mg/l (rat) (OECD 453, 2a, 6h/day, 5d/week, Vapour)
<b>· Reproductive toxicity/Fertility</b>		
<b>100-42-5 styrene</b>		
Inhalative	NOAEL (fertility)	0.65 mg/l (rat, parents) (OECD 416, Vapour)
		0.22 mg/l (rat, F2) (OECD 416, Vapour)
		2.2 mg/l (rat) (OECD 416, Parents, Vapour)
<b>· Reproductive toxicity/Teratogenicity</b>		
<b>100-42-5 styrene</b>		
Inhalative	NOAEL (developmental toxicity)	2.6 mg/l (rat)
	NOAEL (teratogenicity)	2.6 mg/l (rat)
	LOAEL (maternally)	1.3 mg/l (rat)

## 12. ECOLOGICAL INFORMATION

<b>· Aquatic toxicity:</b>	
<b>100-42-5 styrene</b>	
EC10/96h	0.28 mg/l ( <i>Pseudokirchneriella subcapitata</i> ) (EPA OTS 797.1050)
EC50/0.5h	≈ 500 mg/l (activated sludge) (OECD 209)
EC50/48h	4.7 mg/l ( <i>daphnia magna</i> ) (OECD 202)
EC50/72h	4.9 mg/l ( <i>Pseudokirchneriella subcapitata</i> ) (EPA OTS 797.1050)
LC50/96h	4.02 mg/l ( <i>pimephales promelas</i> )
NOEC	1.01 mg/l ( <i>daphnia magna</i> ) (OECD-211 21d)
<b>· 12.2 Persistence and degradability</b>	
<b>100-42-5 styrene</b>	
Biodegradation	70.9 % (activated sludge) (ISO DIN 9408, 28d, aerob)
<b>· 12.3 Bioaccumulative potential</b>	
<b>100-42-5 styrene</b>	
BCF	74 (-) (calculated)
	13.5 (fish)
log Kow	2.95 (-)

### · Behaviour in environmental systems:

<b>· 12.4 Mobility in soil</b>	
<b>100-42-5 styrene</b>	
Koc	352 (-)
log Koc	2.55 (-)

### Additional ecological information:

#### General notes:

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Recommendation**

Must not be disposed together with household rubbish. Do not allow product to reach sewage system.

**Waste disposal key:**

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· <i>European waste catalogue</i>	
07 02 08*	<i>other still bottoms and reaction residues</i>

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**14. TRANSPORT INFORMATION**

· <i>14.1 UN-Number</i>	
· <i>ADR, IMDG, IATA</i>	<i>UN1866</i>
· <i>14.2 UN proper shipping name</i>	
· <i>ADR</i>	<i>1866 RESIN SOLUTION</i>
· <i>IMDG, IATA</i>	<i>RESIN SOLUTION</i>
· <i>14.3 Transport hazard class(es)</i>	
· <i>ADR, IMDG, IATA</i>	
· <i>Class</i>	<i>3 Flammable liquids.</i>
· <i>14.4 Packing group</i>	
· <i>ADR, IMDG, IATA</i>	<i>III</i>
· <i>14.5 Environmental hazards:</i>	<i>Not applicable.</i>
· <i>14.6 Special precautions for user</i>	<i>Warning: Flammable liquids.</i>
· <i>EMS Number:</i>	<i>F-E, S-E</i>
· <i>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</i>	<i>Not applicable.</i>

Transport/Additional information:

ADR

Limited quantities (LQ)

5L

Tunnel restriction code

DIE

Remarks:

ADR 2.2.3.1.5

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****European regulations**

**Directive 2004/42/EC** 2004/42/IIIB (b) (250) <250

**National regulations:****Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**Other regulations, limitations and prohibitive regulations**

Adhere to the Ordinances on the Prohibition of Certain Chemicals.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure. Route of exposure: Inhalative.
- H412 Harmful to aquatic life with long lasting effects.
- R10 Flammable.
- R20 Harmful by inhalation.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R63 Possible risk of harm to the unborn child.
- R65 Harmful: may cause lung damage if swallowed.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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 material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

November 2015