

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 04.10.2021

Version 4

Revision: 04.10.2021

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

**1.1 Product identifier**

**Trade name:** HVD Filler Pastes

**Product code:**

HVD50 EEZ-E-ROBUST General Body Filler

HVD54 EEZ-E-LITE DEEP FILL Body Filler

HVD55 EEZ-E-LITE Body Filler

HVD60 FAIRFILL Filler

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

**Application of the substance / the mixture**

General purpose polyester filler/fairing paste.

For industrial or professional use only

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

**Manufacturer/Supplier:**

Llewellyn Ryland Ltd

Haden Street, Birmingham B12 9DB, United Kingdom

Tel: +44 (0)121 440 2284

Fax: +44 (0)121 440 0281

Email: technical@llewellyn-ryland.co.uk

**1.4 Emergency telephone number:** Llewellyn Ryland Ltd, Tel: +44 (0)121 440 2284 (office hours only , 7am - 7pm)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3	H226	Flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Repr. 2	H361d	Suspected of damaging the unborn child.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 1	H372	Causes damage to the hearing organs through prolonged or repeated exposure.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

**2.2 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** Danger

**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.

H335 May cause respiratory irritation.

H372 Causes damage to the hearing organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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- P260 Do not breathe vapours/spray.  
P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, protective clothing, eye protection/face protection.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

**Additional information:**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**2.3 Other hazards** Vapours may form ignitable mixture with air.**Results of PBT and vPvB assessment**

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture of substances listed below with non-hazardous additions.**Dangerous components:**

CAS: 100-42-5 EINECS: 202-851-5 Index number: 601-026-00-0 Reg.No.: 01-2119457861-32	styrene 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	15 - 30%
CAS: 7727-43-7 EINECS: 231-784-4 Reg.No.: 01-2119491274-35	barium sulfate substance with a Community workplace exposure limit	10 - 25%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	1 - 5%

**Additional information:**Titanium dioxide (CAS 13463-67-7): based on testing, this substance is not subject to the labelling requirements of Regulation (EU) 2020/217 (14th ATP of CLP).  
For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

In case of accident or if you feel unwell seek medical advice immediately (show label or SDS where possible).

**After inhalation:**Remove person to fresh air and keep comfortable for breathing.  
Seek medical treatment in case of complaints.**After skin contact:**Remove contaminated clothes immediately, wash the affected skin thoroughly with plenty of water.  
In case of irritation seek medical treatment.  
Wash contaminated clothes before reuse.**After eye contact:**Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If irritation persists, get medical advice/attention.**After swallowing:**

Rinse out mouth with water. Do NOT induce vomiting. Seek medical advice and show this container or label.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.



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**4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, dry chemical powder, foam or water spray

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

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

During heating or in case of fire poisonous gases are produced.

Formation of flammable or explosive air/vapour mixtures are possible.

#### 5.3 Advice for firefighters

##### Protective equipment:

In the case of fire wear self-contained respiratory equipment and protective suit.

Do not inhale explosion gases or combustion gases.

##### Additional information

Evacuate area and remove all ignition sources.

Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems.

Dispose of fire debris and contaminated fire fighting water according to the regulations.

### SECTION 6: Accidental release measures

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

Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)

Keep people at a distance and stay on the windward side.

Ensure adequate ventilation.

Turn leaking containers leak-side up to prevent the escape of liquid.

Keep away from ignition sources.

#### 6.2 Environmental precautions:

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

Contain the spilled material by bunding.

Advise water authority in case of seepage into water course or sewage system.

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

Absorb with non-combustible absorbent material, (eg sand, diatomite, vermiculite).

Place into suitable and labelled containers for disposal.

Clean contaminated floors and objects thoroughly, observing environmental regulations.

#### 6.4 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.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Prevent formation of aerosols.

Avoid any contact with skin, eyes and clothes.

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

Wash hands before break and at the end of work.

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

Keep away from heat, sparks, open flames and hot surfaces. No smoking.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Ground and bond container and receiving equipment.



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**7.2 Conditions for safe storage, including any incompatibilities****Requirements to be met by storerooms and receptacles:**

Store in tightly closed containers in a cool and well ventilated place.  
Protect from heat and direct sun.

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

Do not store food, beverages and animal feeding stuffs in the storage area.  
Store away from strong acids or strong oxidising agents.

**Further information about storage conditions:**

Keep container tightly sealed.  
Store in a place which is accessible only to authorised persons.

**7.3 Specific end use(s)** Use only according to instructions.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 100-42-5 styrene**WEL Short-term value: 1080 mg/m<sup>3</sup>, 250 ppm, Long-term value: 430 mg/m<sup>3</sup>, 100 ppm**CAS: 13463-67-7 titanium dioxide**WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>; \*total inhalable \*\*respirable**CAS: 7727-43-7 barium sulfate**WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>; \*inhalable dust \*\*respirable dust

Regulatory information WEL: EH40/2020

**DNELs:**

styrene (CAS 100-42-5):

workers, DNEL, acute effects systemic, inhalation 289 mg/m<sup>3</sup>  
workers, DNEL, acute effects local, inhalation 306 mg/m<sup>3</sup>  
workers, DNEL, chronic effects systemic, inhalation 85 mg/m<sup>3</sup>  
workers, DNEL, chronic effects systemic, dermal 406 mg/kg bw/day  
consumers, DNEL, acute effects systemic, inhalation 174.25 mg/m<sup>3</sup>  
consumers, DNEL, acute effects local, inhalation 182.75 mg/m<sup>3</sup>  
consumers, DNEL, chronic effects systemic, dermal 343 mg/kg bw/day  
consumers, DNEL, chronic effects systemic, oral 2.1 mg/kg bw/day  
consumers, DNEL, chronic effects systemic, inhalation 10.2 mg/m<sup>3</sup>

titanium dioxide (CAS 13463-67-7):

workers, DNEL, chronic effects local, inhalation 10 mg/m<sup>3</sup>  
consumers, DNEL, chronic effects systemic, oral 700 mg/kg bw/day

**PNECs:**

styrene (CAS 100-42-5):

freshwater 0.028 mg/l, marine water 0.014 mg/l  
sediment freshwater 0.614 mg/kg, marine water 0.307 mg/kg  
intermittent releases 0.4 mg/l; STP 5 mg/l; soil 0.2 mg/kg

titanium dioxide (CAS 13463-67-7):

freshwater 0.184 mg/l, marine water 0.0184 mg/l  
sediment freshwater 1000 mg/kg, marine water 100 mg/kg  
STP 100 mg/l; soil 100 mg/kg

**Ingredients with biological limit values:****CAS: 1330-20-7 xylene**

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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**Regulatory information** BMGV: EH40/2011

**8.2 Exposure controls**

**Appropriate engineering controls** Provide sufficient ventilation, particularly in closed areas.

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

**General protective and hygienic measures:**

- Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace.
- Remove contaminated clothing immediately and wash carefully before reuse.
- Do not breathe gas/vapours/spray.
- Ensure that washing facilities are available at the work place.
- Be sure to clean skin thoroughly after work and before breaks.

**Respiratory protection:**

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

**Hand protection**

Chemical resistant gloves  
Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

**Material of gloves**

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**

Tightly sealed goggles (EN 166)  
Ensure eye bath is to hand.

**Body protection:** Protective clothing.

**Environmental exposure controls**

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Fluid
<b>Form:</b>	Viscous liquid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	No data available
<b>Boiling point or initial boiling point and boiling range:</b>	No data available
<b>Flammability:</b>	No data available.
<b>Lower and upper explosion limit:</b>	No data available.
<b>Flash point:</b>	32 °C
<b>Auto-ignition temperature:</b>	No data available.
<b>pH:</b>	No data available
<b>Viscosity</b>	
dynamic:	260,000 - 400,000 mPas (Brookfield RV T-Bar)
kinematic:	No data available.
<b>Solubility</b>	
water:	No data available.
<b>Partition coefficient, n-octanol/water:</b>	No data available.
<b>Vapour pressure:</b>	No data available.



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<b>Vapour density:</b>	No data available.
<b>Density:</b>	No data available.
<b>9.2 Other information</b>	
<b>Explosive properties:</b>	Not explosive.
<b>Oxidising properties:</b>	No data available.
<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Flammable liquid and vapour.
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

**10.1 Reactivity** Stable under recommended transport or storage conditions.

**10.2 Chemical stability** Stable at ambient temperature and under normal conditions of use.

**10.3 Possibility of hazardous reactions** Vapours may form ignitable mixture with air.

**10.4 Conditions to avoid** Keep away from heat, sparks, open flames and hot surfaces.

**10.5 Incompatible materials:** Strong acids, strong oxidising agents

**10.6 Hazardous decomposition products:** Decomposes at high temperatures may form toxic gases.

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** Based on available data, the classification criteria are not met.

##### LD/LC50 values relevant for classification:

##### CAS: 100-42-5 styrene

oral	LD50	> 2,000 mg/kg (rat)
dermal	LD50	> 2,000 mg/kg (rat) (OECD 402)
inhalative	LC50/4h	11.8 mg/l (rat)

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/irritation

Causes serious eye irritation.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Suspected of damaging the unborn child.



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**STOT-single exposure** May cause respiratory irritation.**STOT-repeated exposure** Causes damage to the hearing organs through prolonged or repeated exposure.**Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Aquatic toxicity:**

For the product there are no ecotoxicological data available.

**CAS: 100-42-5 styrene**

LC50/96h	4.02 mg/l (flathead minnow, Pimephales promelas)
EC50/48h	4.7 mg/l (water flea, Daphnia magna)
ErC50/72h	4.9 mg/l (alga, Selenastrum capricornutum)
NOEC/21d	1.01 mg/l (water flea, Daphnia magna)

**12.2 Persistence and degradability** Styrene: easily biodegradable**12.3 Bioaccumulative potential**

Styrene: BCF &lt;100, octanol-water partition coefficient log Pow: 2.96 (25 °C)

Titanium dioxide: not bioaccumulating; BCF: 19-352 (Oncorhynchus mykiss)

**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment** Not applicable.**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods****Recommendation** Transfer to a suitable container and arrange for collection by specialised disposal company.**Uncleaned packaging****Recommendation:**

Disposal must be made according to official regulations.

Not completely emptied packaging is to be disposed of in the same manner as the product.

### SECTION 14: Transport information

**14.1 UN number or ID number**

ADR, IMDG, IATA

UN1866

**14.2 UN proper shipping name**

ADR

IMDG, IATA

1866 RESIN SOLUTION

RESIN SOLUTION

**14.3 Transport hazard class(es)**

ADR

Class

Label

3 (F1) Flammable liquids.

3

IMDG, IATA

Class

Label

3 Flammable liquids.

3

**14.4 Packing group**

ADR, IMDG, IATA

III





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<b>14.5 Environmental hazards:</b>	Not applicable.
<b>14.6 Special precautions for user</b> <b>Hazard identification number (Kemler code):</b>	Warning: Flammable liquids. 30
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>UN "Model Regulation":</b>	UN 1866 RESIN SOLUTION, 3, III

### SECTION 15: Regulatory information

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

Seveso category P5c FLAMMABLE LIQUIDS

National regulations: -

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

### SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

#### 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.
- H412 Harmful to aquatic life with long lasting effects.

#### Further information:

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: Calculation method

Date of previous version: 15.06.2021

#### Abbreviations and acronyms:

- CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- EINECS: European Inventory of Existing Commercial Chemical Substances
- WEL: workplace exposure limit
- DNEL: Derived No-Effect Level
- PNEC: Predicted No-Effect Concentration
- BMGV: Biological Monitoring Guidance Values
- EC50: maximal effective concentration, 50%
- ErC50: median effective concentration for growth rate (algae)
- LC50: lethal concentration, 50%
- LD50: lethal dose, 50%
- NOEL/NOEC: No Observed Effect Concentration
- OECD: Organisation for Economic Co-operation and Development
- BCF: bioconcentration factor
- PBT: persistent, bioaccumulative and toxic properties
- vPvB: very persistent and very bioaccumulative properties
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IATA: International Air Transport Association
- IMDG: International Maritime Code for Dangerous Goods
- VLEP: Valeurs limites d'exposition professionnelle
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3





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STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**Data compared to the previous version altered:** Section 3

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