

**Harwell Brothers<sup>TM</sup>**

**Conquering the War on Rust!<sup>TM</sup>**



**250**

**Vinyl 100 primer**

**Safety Data Sheets**

# Safety Data Sheets

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## 1 Identifier

### Product identifier

Trade name: Corps of Engineers Formula V-766E Vinyl Primer Impacted Immersion Coating White/Gray change to Low Voc

Article number: Harwell Brothers 250 Vinyl 100 Primer

Details of the supplier of the safety data sheet

### Manufacturer/Supplier:

Harwell Brothers Distribution, LLC

770 E Main Street

Lehi Utah 84043

Phone 310 744 3325

Information department: Product safety department

Emergency telephone number:

EMERGENCY PHONE NUMBERS:

USA 1-800 400-2361

## 2 Hazards Identification

Classification of the substance or mixture

OSHA/HCS Status: this material is considered by OSHA Hazard Communication Standard (29 CFR 1910.1200)



Flame

GHS02

Flammable Liquids Category 2



Harmful

GHS07

Respiratory Sensitivity 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogen 2 H351 Suspected of causing cancer.

Reproduction 1B H360 May damage fertility or the unborn child.

\*STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure



Health Hazard

GHS08

Skin Irritant 2 H315 Causes skin irritation.

Eye Irritant.2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

\*STOT SE 3 H335 May cause respiratory irritation

Specific Target Organ Toxicity (Single Exposure) (Narcotic effects)

\*Specific target organ toxicity

Percentage of the mixture consisting of ingredients of unknown toxicity: 13%

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## Label elements

### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard Pictograms** GHS02 GHS07 GHS08

### Hazard statements

- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H360 May damage fertility or the unborn child.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

- Keep out of reach from children.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P284 Wear respiratory protection.
- P280 Wear protective gloves / eye protection / face protection.
- P280 Wear protective gloves.
- P280 Wear eye protection / face protection.
- P240 Ground/bond container and receiving equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P201 Obtain special instructions before use.
- P202 Do not start until all safety precautions have been read and understood.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).
- P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
- P304+P340IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.
- P363 Wash contaminated clothing before reuse.

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P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P314 Get medical advice/attention if you feel unwell.  
P370+P378 In case of fire: Use for extinction: CO2, powder, or water spray.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international

## Classification system:

NFPA ratings (scale 0-4)

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2  
Fire = 3  
Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = \*2  
Fire = 3  
Reactivity = 0

## Other hazards

## Results of PBT and

## vPvB assessment

· PBT: Not applicable

· vPvB: Not applicable

## 3 Composition/information on ingredients

### Chemical characterization: Mixtures

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

### Dangerous components:

98-56-6	Chlorobenzotrifluoride	10-30%
108-10-1	Methyl Isobutyl Ketone	10-30%
13463-67-7	Titanium Dioxide	10-40%

## 4 First Aid

### Description of first aid measures

#### General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

#### After inhalation:

Supply fresh air and to be sure call for a doctor

#### After skin contact:

Immediately wash with water, soap, and rinse thoroughly.

#### After eye contact:

Rinse opened eye for several minutes under running water.

#### After swallowing:

If symptoms persist consult doctor.

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## **Information for doctor:**

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

**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## 5 Fire Fighting

### **Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

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

**Special hazards arising from the substance or mixture** No further relevant information available.

### **Advice for firefighters**

**Protective equipment:** Mouth respiratory protective device

## 6 Accidental Release

**Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away

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

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. 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

### **Handling:**

#### **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care Prevent formation of aerosols.

#### **Information about protection against explosions and fires:**

Keep ignition sources away from product. Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

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

#### **Storage:**

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

**Information about storage in one common storage facility:** Not required

**Further information about storage conditions:** Keep receptacle tightly sealed. Store in cool, dry conditions in well-sealed receptacles. **Specific end use(s)** No further relevant information available

## 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7. ·

### **Control parameters**

4 013

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<b>· Components with limit values that require monitoring at the workplace:</b>	
<b>98-56-6 Parachlorobenzotrfluoride</b>	
TWA	100 ppm 10 hours
TWA	375 mg/m <sup>3</sup> 10 Hours
STEL	STEL NA
STEL	STEL NA
<b>108-10-1 Methyl isobutyl ketone</b>	
TWA	50 ppm 10 hours
TWA	250 mg/m <sup>3</sup> 10 hours
STEL	STEL 75 ppm 15 minutes
STEL	STEL 300 mg/m <sup>3</sup> 15 minutes
<b>872-50-4 13463-67-7 Titanium Dioxide</b>	
TWA	10 mg/m <sup>3</sup> 8 hours Form Total Dust

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

### **Exposure controls**

#### **Personal protective equipment:**

#### **General protective and hygienic measures:**

Keep away from foodstuffs, beverages, and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### **Breathing equipment:**

During mixing, handling, and application: Splash goggles. Full protective clothing. Gloves (impervious). Wear suitable respiratory equipment. When air concentrations are not known (or above the TLV), an air supplied respirator is required. Refer to OSHA Respiratory Protection Standard (29 CFR 1910.134). In presence of air movement, air-purifying (cartridge type) respirators are not the best protection but can be used, if you replaced them frequently. Change cartridges after 8h max or less due to their low warning properties. When in a confined space wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

#### **Protection of Hands:**

**Protective Gloves:** The Glove material must be resistant product. Due to not having test data, no recommendation to the type of glove can be given for the product. Selection of the glove material should be done on bases of the chemical make-up of the product. Material of the glove by selection of the glove dose not only depend on material, on the quality varies from manufacture to manufacture. This should be done by glove manufacture.

#### **Eye Protection:**

Tightly sealed Googles

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## 9 Physical and Chemical Properties

<b>Information on basic physical and chemical properties ·</b>	
<b>General Information · Appearance:</b>	
<b>Form:</b>	Fluid
<b>Color:</b>	Not determined
<b>Odor:</b>	Not determined
<b>Odor threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	Not determined)
<b>· Flash point:</b>	37°C (100 °F)
<b>· Flammability (solid, gaseous):</b>	2 (Butyl Acetate=1).
<b>· Ignition temperature:</b>	Not determined
<b>· Decomposition temperature:</b>	Not determined.
<b>· Auto igniting:</b>	Not determined
<b>· Danger of explosion:</b>	Not determined.
<b>Explosion limits:</b>	
<b>Lower</b>	1 %
<b>Upper:</b>	7.5%
<b>Density at 20 °C (68 °F):</b>	
<b>Relative density</b>	3.1 [Air]
<b>Vapor density</b>	0.39 rPa (2.933 muse Hg) at 20°C
<b>Evaporation rate</b>	closed cup 35°C/85°F
<b>· Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b> Not determined.	

## 10 Stability and Reactivity

### Reactivity

#### Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

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

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## 11 Toxicity

### Information on toxicological effects

#### Acute toxicity:

<i>· LD/LC50 values that are relevant for classification:</i>		
<b>98-56-6 Chlorobenzotrifluoride</b>		
Oral	LD50	> 5546 mg/kg (rat)
Dermal	LD50	> 3300 mg/kg (rabbit)
Inhalative	LC50/4 h	> 32.03 mg/l (rat)
<b>108-10-1 Methyl isobutyl ketone</b>		
Oral	LD50	2080 mg/kg (rat)

#### Primary irritant effect:

**On the skin:** Moderate irritant effect.

**On the eye:** Severe irritating effect.

#### Sensitization:

Sensitization Moderate through inhalation.

Sensitization Moderate through skin contact.

#### Additional toxicological information:

This product may cause cancer.

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

## 12 Ecological

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

### Behavior in environmental systems:

**Bio accumulative potential** No further relevant information available. ·

**Mobility in soil** No further relevant information available.

### Ecotoxic effects:

**Remark:** Harmful to fish

### Additional ecological information:

#### General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Harmful to aquatic organisms

## 13 Disposal recommendations

### Waste treatment methods

**Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system ·

### Uncleaned packaging's:



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



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## 14 Transportation

<b>UN-Number</b> <b>DOT, ADR, IMDG, IATA</b>	UN1263
<b>UN proper shipping name</b> <b>DOT</b> <b>ADR</b> <b>IMDG, IATA</b>	Paint 1263 Paint PAINT
<b>Packing group</b> <b>DOT, ADR, IMDG, IATA</b>	II
<b>Environmental hazards:</b> <b>Marine pollutant:</b>	No
<b>Special precautions for user</b> <b>Danger code (Kemler):</b> <b>EMS Number:</b>	Warning: Flammable liquids 33 F-E, S-E
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport hazard class(es) DOT</b> 	
<b>Class Label</b>	3 Flammable liquids
<b>ADR, IMDG, IATA</b> 	
<b>Class Label</b>	3 Flammable liquids 3
<b>Transport/Additional information:</b> <b>DOT</b> <b>Quantity limitations</b>	on passenger aircraft/rail: 5 L on cargo aircraft only: 60 L
<b>ADR</b> <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>IMDG</b> <b>Limited quantities (LQ)</b> <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>UN "Model Regulation":</b>	UN1263, Paint, 3, II

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## 15 Regulatory

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

Sara

· <b>Section 355 (extremely hazardous substances):</b>	
4098-71-9	Isophorone diisocyanate
· <b>Section 313 (Specific toxic chemical listings):</b>	
117-81-7	bis(2-ethylhexyl) phthalate
4098-71-9	Isophorone di-isocyanate
95-63-6	1,2,4-trimethylbenzene
1330-20-7	xylene
872-50-4	N-methyl-2-pyrrolidone
822-06-0	hexamethylene-di-isocyanate
111-76-2	2-butoxyethanol
100-41-4	ethylbenzene
· <b>TSCA (Toxic Substances Control Act):</b>	
tert-butyl acetate	
titanium dioxide	
Hexane, 1,6-diisocyanato-, homopolymer	
Stoddard solvent	
Homopolymer of IPDI	
methyl amyl ketone	
Solvent naphtha (petroleum), light aroma.	
silicon dioxide, chemically prepared	
· <b>TSCA new (21st Century Act) (Substances not listed)</b>	
7429-90-5	aluminum powder (stabilized)
53880-05-0	Homopolymer of IPDI

### Proposition 65

· <b>Chemicals known to cause cancer:</b>	
13463-67-7	titanium dioxide
117-81-7	bis(2-ethylhexyl) phthalate
1333-86-4	Carbon black

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14808-60-7	Quartz (SiO <sub>2</sub> )
100-41-4	ethylbenzene
· <b>Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	
· <b>Chemicals known to cause reproductive toxicity for males:</b>	
117-81-7	bis(2-ethylhexyl) phthalate
· <b>Chemicals known to cause developmental toxicity:</b>	
117-81-7	bis(2-ethylhexyl) phthalate
872-50-4	N-methyl-2-pyrrolidone

## Carcinogenic categories

· <b>EPA (Environmental Protection Agency)</b>		
117-81-7	bis(2-ethylhexyl) phthalate	B2
1330-20-7	xylene	I
111-76-2	2-butoxyethanol	NL
100-41-4	ethylbenzene	D
· <b>TLV (Threshold Limit Value established by ACGIH)</b>		
	titanium dioxide	A4
	bis(2-ethylhexyl) phthalate	A3
	Carbon black	A4
	xylene	A4
	zirconium dioxide	A4
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
13463-67-7	titanium dioxide	
117-81-7	bis(2-ethylhexyl) phthalate	
1333-86-4	Carbon black	
14808-60-7	Quartz (SiO <sub>2</sub> )	

**GHS label element:** The product is classified and labeled according to the Globally Harmonized System (GHS) Hazard pictogram



GHS02



GHS07



GHS08

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## **Signal word** *Danger*

### **Hazard-determining components of labeling:**

4,4'-methylenediphenyl diisocyanate, diphenylmethanediisocyanate, isomers and homologues (p-isocyanato benzyl)phenyl isocyanate light aroma

### **Hazard statements**

H225 Highly flammable liquid and vapor.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317

May cause an allergic skin reaction.

H350 May cause cancer.

### **Precautionary statements**

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

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P284 Wear respiratory protection.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves / eye protection / face protection.

P280 Wear protective gloves.

P280 Wear eye protection / face protection

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing remain at workplace.

P201 Obtain special instructions before use.

P202 Do not start until all safety precautions (personal) have analyzed, read, and understood.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing

P321 Specific treatment (see on this label).

P304+P340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for

Breathing

P363 Wash contaminated clothing before reuse.

P308+P313 If exposed or concerned: Get medical advice

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder, or water spray.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

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

### **National regulations:**

#### **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be accommodated by the authorities in certain cases.

#### **Chemical safety assessment:**

A Chemical Safety Assessment has not been conducted, work may not proceed

## **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

**Department issuing SDS:** Product safety department

**Contact:** HS REG.DEPART.REG.SS

**Date of preparation / last revision** ·

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## **Abbreviations and acronyms:**

*ADR: Accord Europeen sur le transport des marchandises danger uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Flam. Liq. 2: Flammable liquids, Hazard Category 2*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A*

*Resp. Sens. 1: Sensitization - Respiratory., Hazard Category 1*

*Skin Sens. 1: Sensitization - Skin, Hazard Category 1*

*Carc. 2: Carcinogenicity, Hazard Category 2*

*Repr. 1B: Reproductive toxicity, Hazard Category 1B*

*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*

*STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2*