

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

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



**2833**

**Moisture Cure Urethane  
100 Semi-Gloss Finish**

**Safety Data Sheets**

# Safety Data Sheet

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## 1 Identifier

### Product identifier

Trade name: Moisture Cure Urethane Finish 100 Semi-Gloss

Article number: Harwell Brothers 2833 100 Semi-Gloss

Details of the supplier of the safety data sheet

### Manufacturer/Supplier:

Harwell Brothers Distribution LLC.

770 E. Main St.

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



Flame

GHS02

Flammable Liquid 2 H225 Highly flammable liquid and vapor.



Harmful

GHS07

Skin Sensitivity 1 H317 May cause an allergic skin reaction



Health Hazard

GHS08

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

Metabolic 1B H340 May cause genetic defects.

Carcinogen 1B H350 May cause cancer

### Label elements

#### GHS label elements:

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

#### Hazard pictograms

GHS02 GHS07 GHS08

Signal word Danger

#### Hazard-determining components of labeling:

Hexane, 1,6-diisocyanato-, homopolymer titanium dioxide

Stoddard solvent is (2-ethylhexyl) phthalate

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## Hazard statements

H225	Highly flammable liquid and vapor
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.

## 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.
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 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 off
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/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: CO2, 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

## Classification system:

### NFPA ratings (scale 0 - 4)



Health = 3  
Fire = 3  
Reactivity = 0

### HMIS-ratings (scale 0 - 4)



HEALTH 3 Health = \*3  
FIRE 3 Fire = 3  
REACTIVITY 0 Reactivity = 0

## Other hazards

### Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

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## 3 Composition/information on ingredients

### Chemical characterization: Mixtures

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

### Dangerous components:

540-88-5	Tert-butyl acetate	10-30%
13463-67-7	Titanium dioxide in white, pastel, or grey colors	10-30%
28182-81-2	Hexane, 1,6-diisocyanato-, homopolymer	1-5%
7429-90-5	Aluminum powder (stabilized) in silver color	1-5%
8052-41-3	Stoddard solvent	1-5%
53880-05-0	Homopolymer of IPDI	1-5%
110-43-0	Methyl amyl ketone	1-5%
64742-95-6	Solvent naphtha (petroleum), light aroma.	1-5%
1333-86-4	Carbon black in dark, grey colors	0.1-1%
4098-71-9	Isophorone diisocyanate	0.1-1%
64741-65-7	Naphtha (petroleum), heavy alkylate	0.1-1%

## 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.

#### 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.

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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

**Components with limit values that require monitoring at the workplace.**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. Currently, the other constituents have no known exposure limits.

540-88-5 tert-butyl acetate	
PEL	Long-term value: 950 mg/m <sup>3</sup> , 200 ppm
REL	Long-term value: 950 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 712 mg/m <sup>3</sup> , 150 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm
7429-90-5 Aluminum powder (stabilized)	
PEL	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powder./welding fumes
TLV	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction

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<b>8052-41-3 Stoddard solvent</b>	
PEL	Long-term value: 2900 mg/m <sup>3</sup> , 500 ppm
REL	Long-term value: 350 mg/m <sup>3</sup> Ceiling limit value: 1800* mg/m <sup>3</sup> *15-min
TLV	Long-term value: 525 mg/m <sup>3</sup> , 100 ppm
<b>110-43-0 methyl amyl ketone</b>	
PEL	Long-term value: 465 mg/m <sup>3</sup> , 100 ppm
REL	Long-term value: 465 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 233 mg/m <sup>3</sup> , 50 ppm
<b>1333-86-4 Carbon black</b>	
PEL	Long-term value: 3.5 mg/m <sup>3</sup>
REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps. A+C
TLV	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction
<b>4098-71-9 Isophorone diisocyanate</b>	
REL	Short-term value: 0.18 mg/m <sup>3</sup> , 0.02 ppm Long-term value: 0.045 mg/m <sup>3</sup> , 0.005 ppm Skin
TLV	Long-term value: 0.045 mg/m <sup>3</sup> , 0.005 ppm

**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. Store protective clothing separately.

### 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>	Assorted colors
<b>Odor:</b>	Aromatic
<b>Odor threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	97 °C (207 °F)
<b>Flash point:</b>	15 °C (59 °F)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not self-igniting.
<b>Danger of explosion:</b> Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure at 20 °C (68 °F):</b>	41 hPa (31 mm Hg)
<b>Partition coefficient (n-octanol/water):</b> Not determined	
<b>Density at 20 °C (68 °F):</b>	1.11-1.32 g/cm <sup>3</sup> (9.263-11.015 lbs./gal)
<b>Relative density</b>	Not determined.
<b>Vapor density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>VOC content:</b>	100g/l / 0.83lb/gal
<b>Other information</b>	No further relevant information available.

## 10 Stability and Reactivity

### Reactivity

#### Chemical stability

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

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

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

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

## 11 Toxicity

**Information on toxicological effects**

**Acute toxicity:**

<b>LD/LC50 values that are relevant for classification:</b>		
<b>64742-95-6 Solvent naphtha (petroleum), light aroma</b>		
Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rabbit.)
Inhalation	LC50/4 h	>10.2 mg/l (rat)
<b>64741-65-7 Naphtha (petroleum), heavy alkylate</b>		
Oral	LD50	>6,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)
Inhalation	LC50/4 h	>7.8 mg/l (rat)

**Primary irritant effect:**

**On the skin:** No irritant effect.

**On the eye:** No irritating effect.

**Sensitization:**

Sensitization possible through inhalation.

Sensitization possible 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

**Carcinogenic categories**

<b>IARC (International Agency for Research on Cancer)</b>		
13463-67-7	titanium dioxide	2B
7631-86-9	silicon dioxide, chemically prepared	3
1333-86-4	Carbon black	2B
1330-20-7	xylene	3
14808-60-7	Quartz (SiO <sub>2</sub> )	1
111-76-2	2-butoxyethanol	3
<b>NTP (National Toxicology Program)</b>		
14808-60-7	Quartz (SiO <sub>2</sub> )	K
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		



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## 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.

### 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.

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 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

## 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>Transport hazard class(es)</b> <b>DOT</b>	
	
<b>Class Label</b>	3 Flammable liquids
<b>ADR, IMDG, IATA</b>	
	
<b>Class</b> <b>Label</b>	3 Flammable liquids 3

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<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/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

## 15 Regulatory

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

· Section 355 (extremely hazardous substances):	
4098-71-9	Isophorone diisocyanate
· Section 313 (Specific toxic chemical listings):	
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

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· <b>TSCA (Toxic Substances Control Act):</b>	
	<i>tert-butyl acetate</i>
	<i>titanium dioxide</i>
	<i>Hexane, 1,6-diisocyanato-, homopolymer</i>
	<i>Stoddard solvent</i>
	<i>Homopolymer of IPDI</i>
	<i>methyl amyl ketone</i>
	<i>Solvent naphtha (petroleum), light aroma.</i>
	<i>silicon dioxide, chemically prepared</i>
· <b>TSCA new (21st Century Act) (Substances not listed)</b>	
7429-90-5	<i>aluminum powder (stabilized)</i>
53880-05-0	<i>Homopolymer of IPDI</i>

**Proposition 65**

· <b>Chemicals known to cause cancer:</b>	
13463-67-7	<i>titanium dioxide</i>
117-81-7	<i>bis(2-ethylhexyl) phthalate</i>
1333-86-4	<i>Carbon black</i>
14808-60-7	<i>Quartz (SiO<sub>2</sub>)</i>
100-41-4	<i>ethylbenzene</i>
· <b>Chemicals known to cause reproductive toxicity for females:</b>	
<i>None of the ingredients is listed.</i>	
· <b>Chemicals known to cause reproductive toxicity for males:</b>	
117-81-7	<i>bis(2-ethylhexyl) phthalate</i>
· <b>Chemicals known to cause developmental toxicity:</b>	
117-81-7	<i>bis(2-ethylhexyl) phthalate</i>
872-50-4	<i>N-methyl-2-pyrrolidone</i>

**Carcinogenic categories**

· <b>EPA (Environmental Protection Agency)</b>		
117-81-7	<i>bis(2-ethylhexyl) phthalate</i>	<i>B2</i>
1330-20-7	<i>xylene</i>	<i>I</i>
111-76-2	<i>2-butoxyethanol</i>	<i>NL</i>
100-41-4	<i>ethylbenzene</i>	<i>D</i>
· <b>TLV (Threshold Limit Value established by ACGIH)</b>		
	<i>titanium dioxide</i>	<i>A4</i>
	<i>bis(2-ethylhexyl) phthalate</i>	<i>A3</i>

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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

**Signal word** Danger

**Hazard-determining components of labeling:**

Titanium dioxide

Hexane, 1,6-diisocyanato-, homopolymer

Naphtha (petroleum), heavy alkylate Isophorone

di-isocyanate

**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

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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 al 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: CO2, 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

regulations **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 my 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 / lastrevision**05/28/2022

#### **Abbreviations and acronyms:**

ADR: Accord European 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)

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

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

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

*Acute Tox. 3: Acute toxicity, Hazard Category 3*

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

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

*Muta. 1B: Germ cell mutagenicity, Hazard Category 1B*

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