

Harwell BrothersTM

Conquering the War on Rust!TM



2808

**Moisture Cure Urethane
Coal Tar Urethane**

Safety Data Sheets

Safety Data Sheets

Harwell Brothers™

1 Identifier

Product identifier Trade name: Moisture Cure Urethane Tar 100

Article number: Harwell Brothers 2808 Tar 100

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 310 744 3325

2 Hazards Identification

Classification of the substance or mixture:



Flame

GHS02

Flame Liquid 2

H225 Highly flammable liquid and vapor



Harmful

GHS07

Resp. Sensitive 1

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

Carc. 1A

H350 May cause cancer.

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 Sensitive. 1

H317 May cause an allergic skin reaction.

STOT SE 3

H335 May cause respiratory irritation

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Label elements

GHS label elements:

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

Signal word Danger

Hazard-determining components of labeling:

Pitch, coal tar, high-temp.

diphenylmethanediisocyanate, isomers and homologues Ferric oxide

Talc (Mg₃H₂(SiO₃)₄)

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.*
H350 *May cause cancer.*
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 handle 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+P340 *IF 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.*
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.*

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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

- Classification system:
- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)



- Other hazards
- Results of PBT and vPvB assessment

· PBT:	
65996-93-2	Pitch, coal tar, high-temp.

- vPvB: Not applicable.

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	10-30%%
53880-05-0	Homopolymer of IPDI	1-5%%
28182-81-2	Hexane, 1,6-diisocyanato-, homopolymer	1-5%%
110-43-0	methyl amyl ketone	1-5%%
7429-90-5	aluminum powder (stabilized) in silver color	1-5%%
8052-41-3	Stoddard solvent	1-5%%
64742-95-6	Solvent naphtha (petroleum), light aroma.	1-5%%
117-81-7	bis(2-ethylhexyl) phthalate	1-5%%
4098-71-9	isophorone di-isocyanate	1-5%%
95-63-6	1,2,4-trimethylbenzene	1-5%%
1333-86-4	Carbon black in dark, grey, or dark colors	0.1-1%%
64741-65-7	Naphtha (petroleum), heavy alkylate	0.1-1%%

4 First Aid

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

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

Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably inside position for transportation.

After skin contact: Immediately wash with soap, water, and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Immediately call a 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: CO₂, 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.

Environmental precautions:

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:	
98-56-6 Parachlorobenzotrfluoride	
PEL	N/A
REL	N/A
TLV	None established
65996-93-2 Pitch, coal tar, high-temp.	
PEL	Long-term value: 0.2 mg/m ³
REL	Long-term value: 0.1* mg/m ³ *Cyclohexane-extrble.fraction;PocketGuide Apps.A+C
TLV	Long-term value: 0.2 mg/m ³ BEIp
540-88-5 tert-butyl acetate	
PEL	Long-term value: 950 mg/m ³ , 200 ppm
REL	Long-term value: 950 mg/m ³ , 200 ppm
TLV	Long-term value: 950 mg/m ³ , 200 ppm
110-43-0 methyl amyl ketone	
PEL	Long-term value: 465 mg/m ³ , 100 ppm
REL	Long-term value: 465 mg/m ³ , 100 ppm
TLV	Long-term value: 233 mg/m ³ , 50 ppm

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14808-60-7 Quartz (SiO₂)	
PEL	see Quartz listing
REL	Long-term value: 0.05* mg/m ³ *Respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *as respirable fraction
26471-62-5 m-tolylidene diisocyanate	
PEL	Ceiling limit value: 0.14 mg/m ³ , 0.02 ppm
REL	LFC
TLV	Short-term value: (0.14) NIC-0.021* mg/m ³ , (0.02) NIC-0.003* ppm Long-term value: (0.036) NIC-0.007* mg/m ³ , (0.005) NIC-0.001* ppm *(IFV) SEN; NIC-Skin; A3
Ingredients with biological limit values:	
65996-93-2 Pitch, coal tar, high-temp.	
BEI	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

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.

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

Information on basic physical and chemical properties ·	
General Information · Appearance:	
Form:	Fluid
Color:	Varied
Odor:	Aromatic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	97 °C (207 °F)
Flash point:	40 °C (104 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	400 °C (752 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C (68 °F):	41 hPa (31 mm Hg)
Density at 20 °C (68 °F):	1.52-1.60 g/cm ³ (12.684-13.352 lbs./gal)
Relative density	Not determined.
· Vapor density Not determined. · Evaporation rate Not determined.	
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
Dynamic:	Not determined. Kinematic: Not determined.
· Solvent content:	
Solids content:	78-83 %
Other information	No further relevant information available.

10 Stability and Reactivity

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:		
1309-37-1 Ferric oxide		
Oral	LD50	>5000 mg/kg (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

Additional toxicological information:

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

Toxic

Harmful

Irritant

Carcinogenic

IARC (International Agency for Research on Cancer)

1309-37-1	Ferric oxide	3
65996-93-2	Pitch, coal tar, high-temp.	1
14807-96-6	Talc (Mg3H2(SiO3)4)	2B
1330-20-7	xylene	3
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	3
14808-60-7	Quartz (SiO2)	1
26471-62-6	m-tolylidene diisocyanate	2B

NTP (National Toxicology Program)

65996-93-2	Pitch, coal tar, high-temp.	K
14808-60-7	Quartz (SiO2)	K
26471-62-5	m-tolylidene diisocyanate	R

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed

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.

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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.

Other adverse effects No further relevant information available

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

· UN-Number	
· DOT, ADR, IMDG, IATA	UN1263
· UN proper shipping name	
· DOT	Paint
· ADR	1263 Paint
· IMDG, IATA	PAINT
· Transport hazard class(es) DOT	
	
· Class Label	3 Flammable liquids
· ADR, IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E, S-E

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Transport/Additional information:	
· DOT	
· Quantity limitations	on passenger aircraft/rail: 5 L on cargo aircraft only: 60 L
· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

15 Regulatory

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

Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues
26471-62-5	m-tolylidene diisocyanate
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	

Proposition 65

Chemicals known to cause cancer:	
14808-60-7	Quartz (SiO ₂)
26471-62-5	m-tolylidene diisocyanate
Chemicals known to cause reproductive toxicity in females	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity in females	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity	
None of the ingredients is listed.	

Carcinogenic categories

EPA (Environmental Protection Agency)

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	CBD
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TLV (Threshold Limit Value established by ACGIH)

Ferric oxide	A4
Pitch, coal tar, high-temp.	A1
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
Quartz (SiO ₂)	A2
m-tolylidene diisocyanate	(A4)

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NIOSH-Ca (National Institute for Occupational Safety and Health)

65996-93-2	Pitch, coal tar, high-temp.
14808-60-7	Quartz (SiO ₂)
26471-62-5	m-tolyldiene diisocyanate

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:

Pitch, coal tar, high-temp.

diphenylmethanediisocyanate, isomeres and homologues

Ferric oxide

Talc (Mg₃H₂(SiO₃)₄)

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.*

H350 *May cause cancer.*

H335 *May cause respiratory irritation.*

Precautionary statements

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.*

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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
P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
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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 / last revision05/28/2022

Abbreviations and acronyms:

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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)

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