

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

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



**2821**

***Intermediate 100***

**Safety Data Sheets**

# Safety Data Sheet

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## 1 Identifier

### Product identifier

**Trade name: Moisture Cure Urethane Mastic intermediate coating**

**Article number: Harwell Brothers 2821 Intermediate 100**

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

**Manufacturer/Supplier:**

Harwell Brothers Distribution LLC.

770 E. Main St.

Lehi Utah, 84034

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**

*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*

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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

**Signal word** Danger

### Hazard- determining components of labeling

4,4'-methylenediphenyl diisocyanate

Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Ferric oxide

Solvent naphtha (petroleum), light aroma, heavy alkylate

### 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 regulations

## 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:

7440-66-6	zinc powder -zinc dust (stabilized)	30-60%%
1309-37-1	Ferric oxide	10-30%%
540-88-5	tert-butyl acetate	10-30%%
14807-96-6	Talc (Mg3H2(SiO3)4)	5-10%%
13463-67-7	titanium dioxide only in grey colors	1-5%%
101-68-8	4,4'-methylenediphenyl diisocyanate	1-5%%
1330-20-7	xylene	1-5%%
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	1-5%%
1314-13-2	zinc oxide	0.1-1%%
64742-95-6	Solvent naphtha (petroleum), light aroma.	0.1-1%%
5873-54-1	o-(p-isocyanato benzyl)phenyl isocyanate	0.1-1%%
14808-60-7	Quartz (SiO2)	0.1-1%%
64741-65-7	Naphtha (petroleum), heavy alkylate	0.1-1%%

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## 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

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.

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**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**

· <b>Components with limit values that require monitoring at the workplace:</b>	
<b>540-88-5 tert-butyl acetate</b>	
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	Long-term value: 950 mg/m <sup>3</sup> , 200 ppm
<b>101-68-8 4,4'-methylenediphenyl diisocyanate</b>	
PEL	Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm
REL	Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV	Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm
<b>1330-20-7 xylene</b>	
PEL	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI
· <b>Ingredients with biological limit values:</b>	
<b>1330-20-7 xylene</b>	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methyl hippuric acids

**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.

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## **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 Goggles

## 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>	207 °F (97 °C)
<b>Flash point:</b>	59 °F (15 °C)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<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)

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<b>Density at 68 °F (20 °C) :</b>	17.775-18.776 lbs./gal (2.13-2.25 g/cm <sup>3</sup> )
<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>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined
<b>Kinematic:</b>	Not determined.
<b>Solvent Content:</b>	
<b>Solids content:</b>	84-88 %
<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.

**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>101-68-8 4,4'-methylenediphenyl diisocyanate</b>		
Oral	LD50	2200 mg/kg (mouse)
<b>540-88-5 Tertiary butyl acetate</b>		
Oral	LD50	>4500 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rab)
Inhalative	LC50/4 h	>12.52 mg/l (rat)
<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)

#### Primary irritant effect:

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

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



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## **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>		
101-68-8	4,4'-methylenediphenyl diisocyanate	3
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	3
· <b>NTP (National Toxicology Program)</b>		
None of the ingredients is listed.		
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is 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.

### **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 MARPOL 73/78 and the IBC Code</b>	Not applicable.
<b>Transport Hazard Class DOT</b>	
 <b>Class Labels</b> <b>Flammable Liquids 3</b>	
<b>ADR, IMDG,</b>	
 <b>Class Label</b> <b>Flammable Liquids 3</b>	
<b>LATA</b>	
 <b>Environmental Toxicity</b>	 <b>Class Label</b> <b>Flammable Liquids 3</b>

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<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>UN "Model Regulation":</b>	UN1263, Paint, 3, II
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	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

· <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	

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· <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
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> )	

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**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:**

*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 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.*

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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

## **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**

### **Abbreviations and acronyms:**

ADR: Accord European sur le transport des marchandises dangereuses 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

CGIH: 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

1B3T0T SE 3: Specific target organ toxicity -

Single exposure, Hazard Category 3T0T RE 2:

Specific target organ toxicity - Repeated exposure, Hazard Category 2